

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15584	45952	A	15674	1	1640	MSCDTNGEVEGGRVDSKTRGR QEVERNTETHLGSLNCDIPLIF LTYEWRGILEYKIFSVKTGEVL GKPGQLGHPTGQTTFETGTQV TSMQEMGSYSFGQPHVALQG TAPLPAAFTGWRLASVAFPGTQ CKLSVDLPIWGLEDSPDLLTAP LGSAPVGPLCGGSDPTFPFCTA LTGPSAASLLEFARGPLQTLFA WVSAEVSAAEQGFFVNHECCCLI VPLEVLSQRSTRPCEVSVCYPYW GVPPRDRSNQCPSGFTLDSVGP FCADEDECAAGNPCSHSCHNA MGTYYCSCPKGLTIAADGRTC QDIDECALGRHTCHAGQDCDN TIGSYRCVVRCGSGFRRTSDGL SCQDINECQESSPCHQRCFNAIG SFHCGCEPGYQLKGRKCMDVN ECRQNVCRPDQHCKNTRGGYK CIDLCPNGMTKAENGTCIGECL AVSVTEIS/CAVNKSNIDECKDG THQCRYNQICENTRGSYRCVCP RGYRSQGVGRPCMDIDECENT DACQHECKNTFGSYQCICPPGY QLTHNGKTCQGKLPFKQIESGG
15585	45953	A	15675	1	669	MGFCHDGRSIAFRGERGNDESA IEMIKVSHLKQYLAVVFRDKPL ELWDVRTCTLLREMSKNFPTIT ALILTGRCASLKWRSKPKKEEF MGYRQWNPTQESSKGDFEIQL EGGPSMATVYRTEMQPVQIGIE LLPSPLSFHPSNPNGIPNDPSWL LSTATLHPPTGVERSSSPATEQR WTENDFDELREEGFRRSNYSEL REDTQTKGKEVENFEKINLEECI
15586	45954	A	15676	1	323	MAHESAEDLFHFNVGGWHFSV PRSKLSQFPDSSLWKEASALTS\ SESQRLFIDRDGSTFRHVHYL YTSKLSFSSCAELNLLYEQALG LQLMPLLQVRCSCFLGVVDQ
15587	45955	B	15677	1	1443	

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15588	45956	A	15678	1	708	EV TASPQGVSAVSKGDQKWT ALGKGLTFIKAVGSIQRNRWRG WQLKALYQCTTIAGATGVFLR VYRALDVLQMEEDVLKFLAA GIHLGGTNLDFQMKQYIYKKK CDGVYIINLKRTWEKLLLAACA IVAIENPADVRVVISSRNTGQRAI LKFAAATGATPIAGRFTPGIFTN QIQATFQEPQHLFFTDSDRADH/S PLTEASYVNLHTIAPRNTDSPLC YVDIAIPCKKGAHSVGL
15589	45957	A	15679	78	757	REIFINVRSLLMACFVKEEDVL KFLAAGTHLGGTNLDFQMEQY IYKRKSDGIYIINLKRTWEKLLL AARAIVAIENPADVSVIISRNTG QRAVLKFAAATGATPIAGRFTPG GTFTNQIAAFREPRLLVVTDP RADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNNKGAHSV GLMWWMLAREVLRMRGTISR EHPWEVMPDLYFYRDPPEIEKE EQAAAE
15590	45958	B	15680	1	1767	
15591	45959	A	15681	98	412	
15592	45960	A	15682	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15593	45961	A	15683	117	285	
15594	45962	C	15684	12	468	
15595	45963	B	15685	1	840	
15596	45964	A	15686	1	1173	
15597	45965	A	15687	1	2931	MDLFMNVAMLRARYLWSEA VSGFGAQDPKSLALRTHCQTSG WSLTEQDPYNNVIRTTEIALAA TLGGTQSLHTNVFDEALGLPTD FSARIARNTQIIQEESELCRTVD PLAGSYIESLTDQIVKQARAI QQIDEAGGMAKAIEAGLPKRMI EEASAREQSLIDQGKRIVGVN KYKLDHEDETDVLEIDNVMVR NEQIASLERIRATRDDAASDTR EIVDLTNGNIKTFNGSIHYARFD TGRHLFSGGNT
15598	45966	C	15688	1	1779	
15599	45967	B	15689	22	1531	
15600	45968	A	15690	98	412	
15601	45969	A	15691	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15602	45970	C	15692	175	454	
15603	45971	A	15693	332	494	RKEMASGFSGPTLGCCVRRAL PDGDTQLQLLLRGNHDSVLGA KRRDKGEAGPD

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15604	45972	A	15694	2	1276	HTLHSLVTILGTWALHSGPALL LPRPGSGLDFLLSPVLSPQPPG LPTPTPFTNAVQLLLTLKLVSLA SEVQDLHLAQRKEMASGFSKG PTLGLL/RRRALPDGDTQLQLL RGNHDRPVLPPLPLPGLAGAAL PRGSA\SLRPLLRRAPAPLFG LFLSSHLFPLEAVREDAFYARP LPARLFYMIPVFFAFRMRFYVA WIAAECGCIAAGFGAYPVA ARA\GGGPTLQCPPSSPEKAAS LEYDYETIRNIDCYSTDFCVRV RDGMRYWNMTVQWWLAQYI YKSAPARSYVLRATAWTMLLSA YWHGLHPGYYSFLTIPCLAA EGRLESALRGRLSPGGQKAWD WVHWFLKMRAVDYMCMGFV LLSLADTLRYWASIYFCIHFLAL AALGLGLALGGGSPSRRKAAS QPTSLAPEKLREE
15605	45973	A	15695	134	601	RDGEQPLWAWGSPCSPVAPTL CILWAPSSGPGSPFRPSPAPATP WLWGLSPISCDSEPSASWACP LPCPSPKPDRWLLTLKLVSLAS EVQDLHLAQRKEMASGFSKGP TLGLL/RRRALPDGDTQLQLL RGNHDSVLGAKRRDKGGQTTH FVQV
15606	45974	B	15696	76	504	
15607	45975	A	15697	11	706	HITRGRSCTRWTSSAMAKGAPR VILLCLFGAALCLTGSRALQCY SFEHTYFGPFDLRAMKLPSISCP HERFEAILSLDTGYRAPVTLAR KGCWTGPPAGQDAIEPGRAAA RLLG\VRGCTTDKCNALMTH DALPNLSQAPDPPTLSGAECYA CIGVHQDDCAIGRSRRVQCHQD QTACFQGNGRMTVGKGLEGW KGLGKGYGGRAAMRVVIPDRP NRETWPCSEVGGMTLV

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15608	45976	A	15698	2	1642	DEGRAKGHHTWQQTRENESQA KGETPYKTIRFRETYHKNMGMG ETTPMIQLSPTGSLPQHVGIMG ATIQDKIWVRTGLPGFPPTPGL PVSSGFPSPGFPGLQGPVSYG PTGIPGPIGPPGPPGLMVSSGPP GLPGPKVILGLNFQGPKEKVS KGLQGPFPQISEQKRPIDVE FQKGDQVSNDRGPPGPPGIRG PPVSTGGEKGEKGEQGEPPGKR VSEKDGENGQPGIPVSSGDPG YPGEPGRDG/EKGKNVMGPPGP PGFPGERGQKGEDEGPPGISIPGP PGLDGQPGAPGLPGPPGAPGH IPPSKLGDTFCNCIGTGISGPPGQ PGLPGLPGPPGKLAPGAPGFP GSKGEPGDILTFPGMKDGKEL GSPGAPGLPGLPTGQDGLPG LPGPKGEPVCTFKGERGPPGN PGLPGLPGNIGPMGPPGFPPGP VGEKGIQGVAGNPGQPGIPGKF GDPGQTITQPGKPLPGNPGRD GDVGLPGM*GLPGQPLPGIPG SKGEPGIPGILPGPPGPKGMLL
15609	45977	A	15699	246	433	GLFPLEPGANGI*GC/SGRIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS
15610	45978	A	15700	179	5262	RSCGSRRRMKLRGVSLAAGLFL LALSLWGQPAEAAACYGCSPG SKCDCSGIKGEKGERGFPGLG HPGLPGFPPEGPPGPRGQKGD DGIPGPPGPKGIRGPPGLPGFPG TPGLPGMPGHDGAPGPQGIPGC NGTKGERGFPSPGFPGLQGP GPPGIPGMKGEPGSIIMSSLPGP KGNPGYPGPPGIQGLPGPTGIPG PIGPPGPPGLMGPPGPPGLPGPK GNMGLNFQGPKEKGEQGLQG PPGPPQISEQ
15611	45979	A	15701	155	623	FNYLPPGPSHN/DVGIMGATIQD KIWGPPGLPGFPPTPGLPGERG FPGSPGFPGLQGPGLPGPTGIP GPIGPPGPPGLMGPPGPPGLPGP KGNMGLNFQGPKEKGEQGLQ GPPGPPQISEQKRPIDVEFQKG DQVSNDRGPPGPPGIRGPPVS
15612	45980	A	15702	581	687	KKGAGQVV/DDVQLAQLAQA NEIVLSWNCWMLCKQY
15613	45981	A	15703	7	123	

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15614	45982	A	15704	1	374	RFRKAQCTIVERLTNSMMMHHG RNNGKKLMTVRIVKHAFEIHL LTGENPLQVLVNAIIN/DVSPLR RVNHAIWLLCTGAREAAFRNIK TIAECLADELINAAGSSNSYAI KNKDELERVAKSNR
15615	45983	A	15705	2	892	QAFLPITPDQLSNYKVFACKTA LWQNDDVHSQHKGEYRNAAG EPKYRNSVTTHSEGKWQSEKG KDLGVGYWSMACYKLGHIAG NEQQKHICGGIAKKWKQPKCP PTGKWPAVVKPATESEGGGAK KEEKAHLPRVVEKELHESSRHI RHSIESVLLQAFTQKDYTAVKE KYAKYLPHSAERYAAKRFRKA QCPIVECLTYSMMTHGRNNRK KLMIMRIVKHAFEIQLLTGDNP LQVLVNAIINSGPREDSTLTGRA RIVRRQAVAVSPLSRVNQAIWP QCTGALEAAFRNIKTIA
15616	45984	A	15706	1	536	
15617	45985	A	15707	8	437	
15618	45986	B	15708	255	1058	
15619	45987	A	15709	609	1489	LPLSLPRAARPAVAPHLPPREPG PALPLPPPQPPRPSLPGSAQGC NS*RTGTAAAGAGPFAPASMSL RVQTPCWQRGAREPPGSCAS WLFCVWQMVRAHSGCPLAPP PAAAAWVAAQLQP*DGHEGPG G*ET/S*VLRLRPTPTPLPTWCC TVRPRRPVLPFCLIMRRRTAGPP CAPIAAAPTTPSSLRRGKVPTGR PPVL*G*AAVMLTMAVTITRTV TTSCNAAAVMPPKTGTAHRAP LTPGTV*RDCLLVKPTAQMPPS APPWTAPPRVAVAPVIVLPAIS NLGAFA
15620	45988	A	15710	173	530	GRERGDKGGAVQTLQDLVNV HLGLTYPPRPGHSPPSWASPQ APLQPPLRGEPGHGWS/PSGL GQKSEGLGPAHLPAARPAV APHLPPREPGPALPLPPPQPPRPP SLPGSAQGCNS
15621	45989	A	15711	1	227	
15622	45990	A	15712	238	498	
15623	45991	B	15713	1	1017	
15624	45992	B	15714	590	649	

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15625	45993	A	15715	3	843	AVFLSTSNEAVYKIFDDSPCPFT AKTCNPETFPSSNESRQCPNAR CQFAFYGGESGYHRALLGLQIF NAFMFFWLANFVLALGQVTLA GAFASYWALRKPDLPAPPLF SAFGRALRYHTGSLAFGALILAI VQIRVILEYLDQRLKAAENKFS YCLMTCLKCCFWCLEKFIKFL NRNAYIMIAIYGTNFACTSAR\NA CFLLMRNIRVDVLDKITDFLFL *GKLLIVGIVGILAFFFFTHRIRI VQDTSPLNYYWVPILTIVIGS YLIAHGFFQRY
15626	45994	A	15716	1	449	FRGMGDERPHYYGKHGTPQKY DPTFKGPIYNRGCTDIICCVLL LAIVGYVAVGIIAWTHGDPKRV IYPTDSRGEFCGQKGTKNENKP YLFYFNIVKASPLVLAGIQCP TPQICVEKCPDRYLYTLNARSS RDFEYYKQFCVPGV/PRTIKKA NGVLEAGNSPCAYLKITPSLGT DY/PWFLLFQCPTPQICVEKCP DRYLYTLNARSSRDFEYYKQFC VPGVQEQ
15627	45995	A	15717	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQVLSPL NLEVDPNMQGMHTQEKEQVK TLNKSASFVDKVLFLFLEQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEEIPELQSQILDTS VVLSDMNSRSLDMSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAQDMAHG

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15628	45996	A	15718	3	3908	STQQKTARSNMDNMFESYINN LRRHVETLGQEKLKLEAELGN MQGLVEDFKNKYEDEINKRTE MENEFVLIKKD\VDEAYINKVE LESRLEGLTDEINFLRQLYEEEI RELQSWISDTSVVLMSDNSRSL DMNSVIAEVKAQYEEIANRSQA EAESMYQIKDEELQSLAGKHG DNLRCTKT*DLLR*TRNISRLQA EIEGLKGQRAFLEAAIADAEQC GELAIKDANAKL/SELEAALQR AKQDMAWQLRLMN
15629	45997	A	15719	1	804	MKPRTLVSSTVLKDGVSRCV SFRCSVSRISFQWVRGLADF RNEATDPHGLDDILTLRQDKG SFMICWLKKGAPPDPAPPRITP TVRFSTMDLSAASHRIP\SDGN SIPHGLGTYSPEKSLWATNHVP EMVRPTLERTLRVLQLDYVDL YIEVPMFAFKPGDEIYPRDENGK WLYHKSNNLCATWEAMEACK\ DAGLVKSLGVSNFNRRQLELIL NKPGLKHKPVSNQVECHPYFT QPKLLKFCQQHDIVITAYSPLW TSTNP
15630	45998	A	15720	476	906	WKQSHSHQTWYLLTSEACKD AGLVKSLGVSSFNRS\QLELIQN NPGLKPKPVSNEVECHPYTQP KLLKFRQQHDIVMIAYSPLGTT RNPTWTNMSSPSLKDALLKR CNKITAQVILRFNIQQGVVVIK SFNPEKIKENLQA
15631	45999	A	15721	138	217	RHAPQVLGGLSEGT*GGHRCPA RGHW
15632	46000	B	15722	8	578	
15633	46001	A	15723	1	3087	
15634	46002	A	15724	1	2232	
15635	46003	A	15725	1	2085	
15636	46004	A	15726	1	1512	
15637	46005	A	15727	1	1260	
15638	46006	B	15728	1	2145	
15639	46007	A	15729	1	1353	
15640	46008	A	15730	1	1741	
15641	46009	A	15731	1	1995	
15642	46010	B	15732	1	3464	
15643	46011	A	15733	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAACL
15644	46012	B	15734	90	1247	

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15645	46013	A	15735	1	1698	MELKAKAQELREECRLSRRC NQLEESVSVMEDEMNMKREG KFREKRIKRNEQSLQEIWYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLARQANIQEI QRTTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQEELTILNTYAPSTG APRFIKQVRSDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFFSAPHHTYSKIDHIVGS KALLSKCKRTEITNYLSDHSAI KLELRICKLTQNHSTTWKLNLL LLNDYWVHNEMKAEMKMFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEKETQKTL/QKINESRS WFFERINKIDRPL
15646	46014	A	15736	1043	1536	TSTELSTPNQQNIHFFQHHTTSI PKLTTYLEVKLSS*KKH*TWKG TTGTSCC/INHAKIVTHRLKIKG WRKIYQANGKQKKAGVANLV SDKTDFKPTKIKRDKEGHYIMV KGSIQQEELTTLNIYAPNTGAPR FIKQVLSDLQRDLDSHTLIMGD FNTPLLTLDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHIYSKTDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNLTKNRSTTWKLNLLLN DYWVHNEMKAEMKMFETNE NKDTTYQNLWDTFKAMCRGK FIAVNAHKRKQERSKIDTLTSQ LKELEKQEQTTHSKASRRQEITKI
15647	46015	A	15737	1208	1387	KPWQKNYVTHAQASVADLIK WKKGYQ*LKIK*MK*SKKRSLE KKE*KETNKASKKYGTI
15648	46016	A	15738	308	487	KPWHKNYIMHAQASVANLINW KKGYQ*LKIK*VK*SEKRSLEK KE*KEMNKASKKYGTM
15649	46017	A	15739	220	1101	
15650	46018	A	15740	1	1534	
15651	46019	B	15741	365	3904	

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15652	46020	A	15742	79	506	EPSQRHSQDLQGWSEHQVCL HRVGWGHCA TCILPAATASHE GPEAW/TARLLVPQTAVGICSA FSG LPTSTHEPTGMHFLPSEAHE KPRTQPDQKGRDDLPCTPSTC LHTSLFLDTGQEFGTCRMAGLK EHVAGDNRERRQ
15653	46021	A	15743	2	71	ELKF**FPILSPSRKTSPLRQGS
15654	46022	A	15744	1	627	MKAEIKMFFETNENKDDTTYQN LWNTFKAVRRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ THSQASRRLNQEEVESLNR PIT GSEIEAIHNSLPTKKRPGPDGFTA EFYQRYKEELPK/YLLKQLQQS LRIPNQCAKITSIPKHQ*QTNRE PNHE*TPIHNCFKDNKIPRNPTY KGREGPLQGELRTIAQRNKRGH KQMEEHSMLM
15655	46023	A	15746	1	3828	MQLPVQTIAADGYVIKLQKR TT EDGHQSPERHQFPHLSSYSEQE TTRVPFAKAVASGFPGDTTLVF CAS PQSPQVHLPTQAVADIFSE FHEHYARISTAPSVTLSKANMM GSEFPTARLSNSKYPETLEVGES AQPVPMYTWKTVAQDRKDGV SPPLLEKQSITKSISNKPVELSSK VVEVDASKADHMKKMASMGL VHSMAGSGLVLSRSEILKEISSL RNGCAIYRSEFISTDPSSWVPR PRTNEENNGES

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15656	46024	A	15747	1	1639	NCLSDHSAIKLELRIKKLTQNCSTTWKLNLLNDYWVHNEMKAEIKIFFETNENKDTTYQNLWDTFKAVCRGKFTALNAHKRKQERSKIDTLTSQLKELEKQEQTISKASRRQEITKIRAELEKETQKTLQNINESRSLFFEKINKIDRPLARLIKKKREKDQIEAIKNDKGDITDPTEIQTIREY\YKHL\YANKLEY\LEEM\DKF\LDTYTLPRLTQEEVESLNRPTTGSEIEAIINSLPTKK\SPGPDGFTAIFYQRYKEELVPFLLKLFQSIEKEGILPNSFYEASIIIPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHIDQVGFIQGMQGWFNIRKSI NVIQHINRAKDKNHMIISIDAGKAFDKIQSFMLKALNKLDIDGTAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDINKWKNIPCSWVGRINI
15657	46025	B	15748	1	1563	
15658	46026	A	15749	1	4332	

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15659	46027	A	15750	1	2319	MRIDGAQELTLALPFASGVACR DVKPGPRRRPLRYRCFQKPSNR LGSASLGAGFWAGRRDAKSGH DDDPGALFSVTMDRDLEQAL DRAENIIEIAQQRPPIRRYSPRA GKTLQEKLYDIYVEECGKEPED PQELRSNVNLEKLVRRESLPC LLVNLYPGNQGYSVMLQREDG SFAETIRLPYEERALLDYLDAEE LPPALGDVLDKASVNIFHSGCV IVEVRDYRQSSNMQPPGYQSRH ILLRPTMQTLAPEVKTMTRDGE KWSQEDKFPLESQILATAEPL CLDPSVAVACTANRLLYNKQK MNTDPMEQCLQRYSWPSVKPQ QEQSDCPPPELRVSTSGQKEE RKVGQPCELNITKAGSCVDTW KGRPCDLAVPSEVDVEKLAKG YQSVTAADPQLPVWPAQEVED PFRHAWAEGCAWDTKPNIMQ SFNDPLLCGKIRPRKKARQKSQ KSPWQPFDDHSAWLRPGSETD AGRAVSQAQESVQSKVKGP GK MSHSSGPASVSQ LSSWKTPEQ PDPVWVQSSVSGKGEKHPPRT QLPSSSGKISSGNSFPQQAGSP LKRPFPAAPAVAAAAPAPAPA PAAAPALAAA VAAAAGGAAP SHSQKPSVPLIKASRRRPAAGRP TRFVKIAPAIQVRTGSTGL/IGH QRGGPSPGSPGISGSLQSSGGP LPDARPGSSAGCPAPLCLG\QQP

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15660	46028	A	15751	409	1874	YDSYIVVIDDADITRGDDAVPR DHHSSTSMVVFRHIRLDVIVVD GDDQHRRMVGRRCRSWFRR GSLDVDQVIGDTAAGRLNVMG DITRDARRDKVKNERYGVAPS VAFGLGTANRLYLNYLHVTHQ NTPDGGIPTIGLPGYSAPSAGTA ALNHSGKVDTHNFYGTDSYD DSTTDATMRFEHDINDNTTIR NTTRWSR/S/WTWSRTANTKDV SNKILTNQTNLTSTFYTGSIHGD VSTGVEFTRETQTNYGVPVTL PAVNIYHPDSSIHPGGLTRNGA NANGQTDTFIYAFDTLQITRD FELNGGIRLDNYHTEYDSATAC GGSGRGAITCPTGVAKGSPVTT VDTAKSGNLMNWKAGALYHL TENGNVYINYAVSQPPGGNN FALAQSGSGNSANRTDFNPQK ANTSEIGTKWQVRGSSRVNVM HEVNTPHQCVRFRPARSAPGCC QSPCHRSGKHMQYGLSKCQPG QYNSVKSGERVNGVTFQ
15661	46029	A	15752	421	441	P*ARMPSPGLPPLPVMDETT LEEPETARLRFRGFCYQEVAGP REALARLRELCCQWLQPEAHS KEQMLEMLVLEQFLGLPTEIH AWVRGQRPGSPPEAAALIEGLQ HDPGQLLG
15662	46030	A	15753	1	346	PAFGGSAPSERLELHVDGPPRP QAPGD/CGVGRSWRAEM/HDR ALRGTNPRRHLRSCCARARRRP *RRSAPPGRAN/PS*SSWGPSTP GNYRCRYRSWVPHTFKSELND PVELLVA

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15663	46031	A	15754	1	2091	MKPGLRRRRGRGLGCGLGPQL RATWSGAVLAGRDAVLRCEGP IPDVTFELLREGETKAVKTVRT PGAGAKLELIFVGPQHAGNYRC RYRSLVAHTFESESDPVELLV AVAATLNIHLRLVHMLHIPAAG EGSFREGTHFLKPSPVKMPLVF RVGRRRVLNQGPQGVPIPIPRSC EHLNWQKGLCGVTKCAAPLLR GPPCPAVLRKEIPFVSLKPGLMS SKASEAEPLGPRLGSHQSTAAA LGPRYNGSADAI RPHTAWAVIQ TTISRFTWSLTQVNVPSRTVSLA VRRDRYMTSRTTTNPEEGCRG TFWARRNGCSPSACAVAEAL EACLADVRYPVVALSCGRLQK RRDFRETNAAMSNEKSLASA RFFVEVQVTLGALCTVQATGQ SMLVFSTTQMSSYSEKFLTSKH ASLSPRLQLADRWRDQGMKW QSPQWGELRPAASHTAEQEPGL AASKAFRDLQNLNSAFLSLTS LSAGHCISAIVMMMSKKEITP QGQLAAASFGE LQPVALKCPW LKSQHVESWL RPEAHSKEQML EMLVLEQFLGTL PPEIQAWVRG QRPGSP EEAALVEGLQHDPG QLLGWITAHVLKQEVLPAAQK TEEPLGSPHPSGTVESPGEGPQD TRIEGSVQLSCSVKEEPNV DGQ EVAPSSPPLAAQSPEGNHGHQE PASTSFHPRIQVSSPKWEV
15664	46032	A	15755	1	208	
15665	46033	A	15756	3	373	EVAQMPRVSTPATLPSLPQPAL MAPWTVPYDQLMEE EKARAR YAGTIQKWTAALQPLSRTSLK DSGEGTSKWGRSVDTTQPLSPA IPVIFQ* AHEQSGHSGMDGGYA WALQHGLALTNTDLA
15666	46034	A	15757	3	266	
15667	46035	A	15758	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVA AIIQG ITKIETTPNHQRA PAHWTLTQ QAHLQPSPLHFNLP LTLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAE GDFQPFTRVTVHWGKG NDQTFRGLLD TGSELTLIPGDP KHHYGPPVKVG\A YGAQLL
15668	46036	A	15759	1	1566	

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15669	46037	A	15760	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSHTCSWRRHLLSSCPYT GMSFPIPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTWALCHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHHP KVDSCSTTAPF*DIPEGQQL
15670	46038	A	15761	349	718	AGPEGTTTAACP/I/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLLSWKWQSASAKTTIHGLT KCLIHHDIPHSIASD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSPFN
15671	46039	A	15762	143	469	ARIQ/GSRNQGVEVEVAPLTVT PSDPLANVLLPVPATLPASGLEI LVPEEGRLLPPGDTTMMPLNWN LRLPHGHFGLLLPLNQAKKG VAVLGGVIALDCQDEISLLLYK
15672	46040	A	15763	1	2712	
15673	46041	A	15764	3	578	LKSRQAPRCEVESVTHEEYVYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWALCHNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLLPALMASW/ENSP*SIDRG RED*SLVHKWFCTICRHHHPKVD SCSTTAPF*DIPEGQQL
15674	46042	A	15765	1	461	MTVDYRKFNQVVPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFPSIPVHEAHQKQFAF/LPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTLDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPEQVP
15675	46043	A	15766	1	1371	
15676	46044	B	15767	54	864	

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15677	46045	A	15768	2	1148	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PEWFHCLSKLIHLLIPGMQPLT WQ/HALFSIPVHKGYINSLALC/ Q*CYLERT*LLFTSTRYHTGPLH **HYADWIQCARSRKQTGLTG KGQRFVLTERDTY\YGFTYPAH NASAKTTIHGCTECLTHPHVIPH SIASEQDTHFTAKEVWQWAHG NGIHWSYHVPHHPEIARLIEWW NGLLSQVQCHLGDNTLQGW GKVLQKAVYALNQYPIYGTVS PIARIHGSRNQGEVEVAPLTIT PSDPLAKCLFPVKTLCAACLE VLLPGGGMLPPGDTTTIPLNRK LRFPLEHFGLL
15678	46046	A	15769	917	2352	DTISHQLEWRSLKSQETTGAIEI SATIKDLKGAGVVIPTTSLFNSS VWPVQKTDKSWRMTVDYCKL NQVLTPNAAVDPDVPLLEQIN TSPGTWYAAIDLANAIFSIPVHK AQKQFAFSWQGGQYTFTVLP QGYISSLALCHNLIRDLGFL LQNTLLVHYVDDIMLIGSSEQE VANALDLLVRHLCVRGWEISPT KIQGPSTLVKFLGVQWCGACR DILSKVKDKLLHLAPPTTKKEA QRLVGLFGFWRQHHPHGLGLLQ PLYLVIQKAAIFEWNPEPEKVL QKVQAAVQAALPLGPYDPTDPI MLEVLVADRDAVWSLWQALI GESQQRPVGFWSMALPSSADN YSPFERQLFACSWALVETECLT MGHQVTMQPELPIMNWMLSDP SSHKVVAQQH\QEVAQMPRV STPATLPSLPQALMAPWTVPY DQLMEEKARARYAGTIQKWT AAALQPLSRTSLKDSGECTSKW
15679	46047	A	15770	1	861	
15680	46048	A	15771	5	90	
15681	46049	A	15772	1	324	MVQEASEVIGQLQSSAAK*AM HWAGFSYLTKKSLNAN
15682	46050	C	15773	1	726	
15683	46051	A	15774	364	543	ARGAARSMKHTSGDETKRQKL D*VRLTGIRASREEVTKEAGPR KRIMCSGMDELNGGLQL
15684	46052	B	15775	1	1056	
15685	46053	A	15776	1	282	

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15686	46054	A	15777	167	954	KRVTSKLLKSPRRGSPHCSRNPV LLRGIGRYSRSAMYSRKAMYK\ RKYSAAKSKVEKKKKEKVLAT VTKPVGGDKNGGTRVVKLRLK MPRYYPTEDVPRKLLSHGKK\ PFSQHVRKLRASITPGTILILTGR HRGKRVVFLKQLASGLLLVTG PLVLNR\ VPLRRTHQKFV\ ATFT KIDISN\ VKIPKHLTDAYFKKKK LRKPRHQEGEIFDTEKEYEITE QRKIDQKAVDSQILPKIAIPQL QGYLRSVFALTNGIYPHKLVF
15687	46055	A	15778	1054	1403	MVEGGILRVNTSVECKTGPPFF SPHILWREPFCSVQVGKKKKEK VLATVTKPVGGDKNGGTRVVK LRKMPRYYPTEDVPRKLLSHG KKPFSQHVRKLRPSITPGTILIL TG\ RHRG
15688	46056	A	15779	1	388	
15689	46057	A	15780	1	456	MKLPEEGSLSDICCSAIFAVLQP LLVIPRETGSGVDLQQTPTDLQ LRQTESQIMSELPFTVASKRIKY LGIQLTKDVKDLFKEIYKPLLSE IKEDTNKWSIPCSWLGRINIVK MAILPKVTYIFNAIHIKLPMTL EKTK\ FIWNRKRACI
15690	46058	A	15781	1	504	
15691	46059	A	15782	1	1836	

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15692	46060	A	15783	285	1949	RGEMNSRGRNNLSIINKTDFPFI ALNAHKRKHRSKIDTLTSQK ELEKQEQTNSKASRSHEITKIRA ELKEIETHNKPFFKISESR\SWFF IFYF\ERINKIDRPLARLIKKRE KNQIDTIKNDKGDITTDPTIEQT TIREYYKHL YANKLENLEEMD KFLDTYTL PRLNQEEVESLNRPI TGSEIEAIINSLPTKRSPGPDGFT AEFYQRLKQCRKAHLDPVSLT HRSGPGAREDRLSDSGDASRGC WNLSQHAAVTSPESERRIRTL SCRSVGVCRRSTPDPVCLGISSG GCRTVNIGEQQMLLPDRSSGSF VSEGYRPEVSAPTGGCPPVRC LMINTVSLIGVKFTEVFDSINISE HLELACLQDHNSLLAREQNW EDEFDELTEVGFRRWVITNSSE LKEEVQTHCKEVKNLETRLDE WLTRITNAEKSLKDLMEKTM AGELRDACTRFSSRFNQLEERV TEIEDQMNMKQEEKFREKRIK RNEQSLQEIWDYVKRPNLHWL GVPESDRENGTKLENTLQDIIQE NFPNLARQTNIQIQEMQRM
15693	46061	B	15784	596	1414	

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15694	46062	A	15785	610	2986	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKDQRTSSPTKDCSSSPATE QRWMENDFDELTEV/VLQKPG RDTTKQKEKFRPISLMNIDVKI LNKILANRIQQHIKKLIHHDQV GFISGMQGWFNICKSINVIHHIN RTNDKNHMIISIDAEKAFDKIQ QPFMLKTLKKLGIDGTYLKIIRA IYDKSTASIILNGQKLEAFPLKD RTRQGCPLSPLLFNIALEVLARA IRQEKDIKCIQLGKEKVRSLFA EDMIVYLENPIVSAPNLFKLISN FSKVSGYKINVQKSQVFLYINN RQRESQIMNEFPFTIARRRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNMPCSWIGRINIM KMAILAKVIYRFNAIPKLPMTF FTELEK\TTLKCI*NQKRAHIAK PILSQKNKAGGITLPDFKLHYK AAVTKTAWYWYQNRDIDQRN RTEPTEIMLHIYNHLIFDKPDKN KKWGNDSL FNKWCWENWLAI CRKLKRDPLTPYTKINSRWIE DLNIRPETIKTLEENLGNTIQDIA MGKDFMSKTPKAMATKAKIDK WDLIKLKNFCTAKETTIRVNRQ PTEWEKIFAIYSSDKGHISRIYNE LKQIYKKK\NNPIKKWAKDINR HFSKEDIQAASKHVKKHSTSRIF MQIKTTLGYHLTPVRMATIKKS KNNRCWCGCGEKGTLIHCW/M
15695	46063	A	15786	1	906	MVNQKRYHIPGGTAEISGTIKK LKNAGVVIPTTSPLNSPIWPVQ KTDGSRMTMDYHKLNQVVT PIAVAVPYVVALLEQINTFSCT WYAAIDLANTFFSFSVHKA/HK K*FAFSRQGQQTFTVHP\YDN YSPFERQLLACYWASVETEHLT MGYQVTIQLELPIMNWVLS DPS SHKLGHAKQHSIIKWKWYIRD RARAGPEGTARIHRSRNQGV EV EVAPLTITPSDPLARFLLPVPTIL HSAGLEVLVPEGGTLP LGDTT IPFNWKLRLPPGHFRLLLPLNQ QAKKGVTVFAGVIEAIKMK

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15696	46064	A	15787	1	909	MVLEVSVSDRDAVWRLWRAP GESQQRSLGFWSKVLPSADN YFPFERQLLACYWALLETDRLT VGHQVTLQPELPIMNWVLS DPS SHKVGHVHQHSIIKWKWYIRD QTRAGPEGTTTPVITQ/WDAHE QSGLSGRDG/KGQRFVLTGVD T YSGYWFAYPAHNASAKTSIYG FTECLIHCHGIPHSIASDQGT LFT AKEVWQWAHAHGIHWSYHIP HHPIAAGLIEWWNGLLKSQLQ CQLGDNTLQGWGKDLQKAMY SLNQRLIYSTVSPISRIHGS RNQ RVEVEVAPLTITLSDPLAKFF FL
15697	46065	A	15788	1	754	MQNNVDSFQEPPTPLFSSRPI A RLKSKQAPRGEAESVTHEELES I RLRAKTSKISSLTFRRGWGKV LQKAMYALNQHPYGTVPPIPR I DGSRNQGVVEVKVAPLTITLSD P LAKFLLPVLSALHSAGLEVLVP EGGILPPGAGDMRMIQLNWKL SLPPGYFGLLLPLSQQTKKGV T DLGGVIDLDYQDEISLLFHIK V NGKLQQPNPDRTTSGPDPSGM KVWVTPPGK/EPQPAEGLAEG K GNTEWVVEE
15698	46066	A	15789	686	1506	VETVHMLQIGEFKKT DVS/W K TVDYHKLNQVVTPTAAAVPDV VSLLAQINTYPGTWYVIDLEN AFFSVPVHNAHQGFASWQG QQYTFTVLPQGYINSPTLCHNLI RRDPGHFSYPQDITLVHYIDDI MLIGSSEKEVANTDLLPIYQV TLKAANYEWGPEQEKA VQQV QAAVQAALPLGQHNPADPTVL EVSVADRDAIWNLWQAPIARIH GSRNQGVVEVAPLTITPSDPL AKFLPPVPATFCSAGLEVLVPE GGMLPPGEIETIPLK
15699	46067	A	15790	422	537	VNQFGVIFCAAIIIN*YECLKQ SF KTQTDYFPSPLNTSQ
15700	46068	B	15791	1	519	

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15701	46069	A	15792	53	753	SLGTGTLRVLLGTAEAQMLQFS HLYADYGGKPALEDINLTLESG ELLVVLG/PSGCGKTTLLNLIAG FVPYQHGSIQLAGKRIEGPGA RGVVFQNEGLLPWRNVQDTVA FGLQLAGIKKMQRLLKFAHQML KKVGLEGADKRYIWQLSGGQR QRVGIARALAAANPQLLLDPEF GALDAFTRDQMOTLLNLWQE TGKQVLLITHDIEEAVFMATEL VLLSSAP\GRVLERLPHI
15702	46070	A	15793	2348	2760	LWLVCINCFIPAFLLMLRWLPR LKPLSQLSVPTYRLPSVPFLKPT GMESPEAISRVSGKGIL*RDSDA YSVLSYHYPIRHPSSIIVDHRS SIDP*PIVDHSSIAKRSGTFPLG YWEVQVQLTFGQQRQASGILQ
15703	46071	A	15794	2	415	HPGLETDDLSPAPAALEPQGG GRPSIQGAPRGSFTRIEAGTPHV PAPCPAAQRNQGWGLVGAWL GFMAP*EQSVASSWK*PLMKS QYSREVISHLPLVPMQQGRPVM TQSMWGWLVWFPALFLVQIGH LVMSSGHS
15704	46072	A	15795	428	885	GISMKLSRISAI/NWNKISDDKD LEVWNR/LTSNFWLPEKVPLSN DIGAWQTLTVVEQQLTMRVFT GLTLVDTLQNVIGAPSLMPDAL TPHEEAGLSNISFMEAGHARSY SSIFSTLCQTKDVDAAYAWSEE NAPLQRKAQIIQQHYRGDDPLK K
15705	46073	A	15796	1	1125	
15706	46074	A	15797	57	303	SHKHYADALLYPAPDVCTAC* LLRGNRRDQSKS\TAKRHLTAA HFRFVRMVRHGNH/SRLRPDSF R*PVSPDR*PPLRAAHFR
15707	46075	A	15798	3	430	
15708	46076	B	15799	1	1338	
15709	46077	A	15800	380	1043	WTRWRASAADNLAHGRWGEQ KLVTGASGAPDRQAARCGC IWRKISWYRSKGSKHPLTPKEV EKTGWGLKIRGMGKQQA\ERV KEAARILELDGLLKRRPRELSG GQRQVAMARAIVRDPVFLF DEPLSNLDAKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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15710	46078	A	15801	1	900	MAAIAFLITWFLSHDKKRIRILK RLSGGGNMADEFPGGAVVFTV LNLTHWLEDWGLPVHWRSSC MPSGLEYLIVLIFKGVIVAVHLL IVDALNLIRRIHAV/QGSPCVET CQHALDQLIMHSQPTHAVAVF DDENRSSGWRHQGLPDYKAGR PPMPEELHDEMPALRAAFE\QR GVPCWSTSGNEADDLAATLAV KVTQAGHQATIVSTDKGYCQL LSPTLRIRDYFQKRWLDAPFID KEFGVQPQQLPDYWGLAGISS KVPGVAGIGPKSATQLLVEFQS LDGIYENLADVAVAEKWRHKL
15711	46079	A	15802	1	1350	
15712	46080	A	15803	1618	2082	
15713	46081	A	15804	1	803	MINLIGSDVNYDWLKLPLVHL HWYDKEVRPGRKVGHLNLTD DTSRLTATLEALIPLLPPEYASG VIWAQSLIRCVKHRIRHCAPIAG CGTGCRPDKTRQASHQAQMSN AYDYSEIQGIGKQKAANRVAEP RTYHSFASITDRRADLLKPGNH AQDGRLLTAARRADKHDELFIG NFQKADNRGQVSDSVEGNSNC APVKPAPIPTERIPALMASMPA CASSMPIHACGCTPSPAQAARK ISGSGFEFLSWEASAQVKNSR SSSAKIVGAFRETEASPTICC ARRSASKERMPG*ARADPHRA HTAGVNGVNARLRIFNADTCL RRHAQPCTGGEKDFRVRFRVF KLGSIRAEGEKLAQLQRR

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15714	46082	A	15805	1	1655	MRGHNWIDMDQARQQSTPHT DRKICHKNDPRRTTPLRKIDAH PHTLIILPAESTLSTTKYKLRAL LVENTNKDKSAVS SVVFRGSVL HQQAANFPNMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSES VPAIAAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLTCGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLENVRFNKGEKKD DETLSKKYAALCDVFVMDAFG TAHLRAGFLLTGIGKLRC SLRC AGPLLAAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDSLK IADQLIVGGGIANTFIAAQGHD VGKSLYEADLVDEAKRLLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINA VFSYVTNVWG WAFE WYMVVMLFGWFWLVFGPYAK KRLGNPEPFESTASWIFMMFAL
15715	46083	A	15806	1	1359	
15716	46084	A	15807	670	1008	
15717	46085	A	15808	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGV DVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLIVGGGIANTFI/AAQGHD VGKSLYEADLV/DEAKRLLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSDKISYISTGGGAFLEL WKVKYLPVAVAMLEERG
15718	46086	A	15809	465	888	RGLVALSSERRCRLRRRNHPES GTRSPDPAGAASLSRRFFYAPP GTPETGCGYSSRSRSQRKR/LST WRCNS*ETPKSPPKACCRPARIP APRSSSVKKASACGPAAVMKK RCRKASITPISKITCAIHRMRRW TCTKRAAF
15719	46087	A	15810	417	707	IQIHERSWRYLHWSSVRRRA A*YGAPL*RDGIQRGTTRISQV YQ*SSVRQLRRDASASGSAPRV CREYAAACYLRHEHWS CDAVS PTPRMLKSFV
15720	46088	B	15811	1	4350	

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15721	46089	B	15812	1	2862	
15722	46090	A	15813	1	1471	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLSKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQKGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGG/L TRSMEYDVAAGR VIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHA YNAQGL ANRCIPDSLPAVEWLTYGSGYL AGMKLGDTPLVEYTRDR LHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHANFAL
15723	46091	A	15814	1	1367	MSKLLERFRYFKQKGETFADG HGQVMHSNRDWEDSYRQRWQ FDKIVRSTHGVNCTGSCSWKIY VKNGLV TWEIQTDYPRTRPD LPNHEPRGCPRGASYSWYLYSA NRLKYPLIRKRLIELWREALKQ HSDPAADNDLIARFQSFTNQPI ANRLTGNDRARFNLT FIVNNQH ATAITTTGTFLPEWSTTFITLIL QSKVQAIDLTKEAIVTVGCNTIS TTVHEVVSASIGIATKFWQHIGP CFYVIYDTVVTIVESRTTEYSP DVVTGLITRITPDGRASAFYN NHHSQLTSATGPDGLEIRREYD EWGRLIQETAPDGDITRYRYDN PHSDLPCATEDATGSRKMTW SRYGQLLSFTDCSGYVTRYDH DRFGQVTAVHREEGLSQYRAY DSRGQLIAVKDTQGHETRYEY NAA/GDIRQCESDLQSPSCSQYR AIDGESLSETARYSVHQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15724	46092	A	15815	357	1733	TADSPETLRCQTSGENARGAGT VERAGKSLWRSR*SHRP*STR TGDIHCQIQTNFSLFN*QHPGQH RYGSGTAIINQSLITHDPEYPEN LPAAPLVRYGWTPRGELAVVY DRSGKQVRSFTYDDKYRGRMV AHRHTGRPEIRYRYDS DGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKR VVK KEHADGSVTQSQF DAVGRLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLELRREYDELGR LIQET APDGDITRYRYDNPHSDLPCAT EDATGSRKTM TWSRYGQLLSF TDCSGYVTRYDHDRFGQMTAV HREERLSQYRAFDRRGTVIAVK ETQGLETGFEYHFPVDPGVIA P KG/SRNGNSQSVGKRRSTEDIR G*TRWRGYTADRRAAKTHARV E*HLRARPRVCALFFPKQCERH
15725	46093	A	15816	1595	3228	DNNAKLFRAGQMKVLKPYVDS GKIKVVG DQWVDGWLPENAL KIMENALTANNKIDAVVASN DATAGGAIQALSAQGLSGKVAI SGQDADLAGIKRIAAGTQTMT VYKPITLLANTAAEIAVELGNG QEPKADTTLNGLKDVPSRLLT PIDVNKNNIKDTNLPAAPLVRY GWTPRGELAVVYDRSGKQVRT FTYDDKYRGRMVAHRHTGRPE IRYRYDS DGRVTEQLNPAGLSY TYQYEKDRITITDSLDRREVLH TQGEAGLKR VVKKEHADGSVT QSQF DAVGRLRAQTDAAGRTT EYSPDVVTGLITRITTPDGRASA FYNNHHNQLTSATGPDGLELR REYDELGR LIQETAPDGDITRY RYDNPHSDLPCATEDATGSRKT MTWSRYGQLLSFTDCSGYVTR YDHDRFGQMTAVHREGLASQ YRAYDSRGQLIAVKDTQGHET RYEYNIAGDLTAVIAPDGSRNG TQYDAWGKAVRTTQGGLTRS MEYDAAGR VIRLTSENGSHTTF RYDVLEQYCGQVIKAHAVSRF
15726	46094	A	15817	1	627	
15727	46095	A	15818	701	895	

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15728	46096	A	15819	1412	1705	LASISTSCAPPKVNCGVMAIFLA SDSRLWSGLRAQATSRSTLSLM TRSGWLAIQ*NALRSWLASHE TKRPPSTLGGNTVPS*ALRLGIL ASSRJLL
15729	46097	A	15820	344	547	
15730	46098	A	15821	1	1518	
15731	46099	A	15822	1693	2455	VLA AFTRSKQRYGAPRLTDEL R AQGYPFNVKTVAASMRQGLR AKASRKFSPVSYRAHGLPVSEN LLEQDFYASSPNQKWAGDITYL RTDEGWLYLAVVIDLWSRAMA LLRRKSPGNVIVHTDRGGQYCS ADYQAQLKRHNLRGMSAKG CCYDNACVESFFHSLKVECIHG EHFISREIMRATVFIISNVITIGG GGTVAARGGVP*AVKSNVNDV RRNCLARSSNNGWIFPPVVVNG WRQQALTIVAGICC
15732	46100	B	15823	1	1407	
15733	46101	A	15824	1	3252	
15734	46102	A	15825	1	2409	
15735	46103	B	15826	1	2802	
15736	46104	A	15827	1715	1824	
15737	46105	A	15828	410	720	PGSRAVIGWSMSPRMTAHWPA MPCRWRCCGGVRTYAPEPTG*R RWLQNCSACSS**LRKTSRKNR TT*RTPARSSSAPPLMLKQPFTR QWPLNTPWKPPRLSPS
15738	46106	A	15829	905	1008	SCDSYRLSSRAAAVTPMRSASF RASGFLLVILFVCRVSVVGCRV LAWSGGSVFRRGVPLAWTVLR WVRRRCGCGVGRCRGLSAVV YPSGIITVDSARSWRIMGRSGSP LA\TVGLAGCWSQPRL*TD AFS KLQGFRVFTGDTICM
15739	46107	B	15830	1	3148	
15740	46108	A	15831	1896	2062	SVCYPGRN*IPSG*N*PRIWSDP VQRRERAGKKWLHENPGWRK **PDYHYRSEAD

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15741	46109	A	15832	1	1456	MSTEIARLKRQLADGMKSWLS SKRPRHTSRAPEMKYVFIEKHQ AEFASKQCAACSGWPATAGNV VSAADKDKHASAVPPHCDSVV LAAFTRSKQRLPLNVKTVAASL RRQGLRARPPGSSARSATAHTA CLVRKSVGAGFLRQWPEPKWA GDITYLRTDEGWLYLAVVIDL WSRAVIGWSMSPRMTAQLACD ALQMALWRRKKPRNVIVHTDR GGQFGDRWK/ALANALNIPLDQ LSARISANPKGGFIYLADEVNP DMADYIKKKLPLGIHVREESRR YYPSGEVTAHLIGFTNVDSQGI EGVEKSFDKWL TGQPGERIVRK DRYGRVIEDISSTDSQAAHNLA LSIDERLQALVYRELNNAVAFN KAESGSAVLVDVNTGEVLAMA NSPSYNPNNLSGTPKEAMRNRT ITDVFEPGSTVKPMVVM TALQR GVVRENSVLNTIPYRINGHEIKD VARITTEEDFNHASAARFVCAA AERALQNHH
15742	46110	A	15833	2	929	
15743	46111	A	15834	1	472	
15744	46112	A	15835	1	513	
15745	46113	A	15836	1	254	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTGAA YLSLRDQKRV/LRYEPVSQFRLS ETQKHQSVCHAFIRIPVSVS

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15746	46114	A	15837	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNSP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIG/LQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVIVIDSAPNLGIGTIN VVCAADVLIPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
15747	46115	B	15838	1	1734	
15748	46116	A	15839	1	971	
15749	46117	A	15840	1	1143	
15750	46118	A	15841	1	556	
15751	46119	B	15842	8	1000	
15752	46120	A	15843	1	1169	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGVRTGD FQLHTNVNDGAIEFGGSVYQKV CEELDALINLAWTSSTSTCTRF G LAAKFQLKPIAFISTKVNHWLT GVSYPPEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINH K KRKNSPRIVQSNDLTEAAYSL S RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLT SA EASKDIRQALKSFAGKEVVFY R PEEDAGDEKGYESFPWFIKRA H SPSRGLYSVHINPYLIPFFIGL QN RFTQFRLSETKEITNPYAMRL Y ESLCQYRKPDGSGIVSLKIDW II ERYQLPQ/TYQRMPDFRRRFL Q EEFESLNRQITGSEIVAMINSL ST KKSPGPDGFTAIFYQ
15753	46121	A	15844	1	1509	

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15754	46122	A	15845	1	558	
15755	46123	A	15846	1	1773	
15756	46124	A	15847	1	2256	
15757	46125	A	15848	1	812	MEVLASWATFTLGQTEQHVD WISAGAAPQGPIVKQLPSPVPPT EQLEQEKPTIGSAPSTPNKLLL SHSNCQLPRPLRSITNISACFSLE LAIDHRGFPHSPGARSLYSNSVF GTYQLCDLCDNLKTCHTSHGS VMAETAVINHKKRKNSPLIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPW/IKRSPE*RRGKFPFT QMGQD
15758	46126	A	15849	1	1773	
15759	46127	B	15850	1	1755	
15760	46128	A	15851	1	726	MPASGNENDLNMPSGTIEIFVR CYVEVERIMSAWTEQNEHRT MMWSVLLQPCDNLKTCHTSHG SVMAETAVINHKKRKNSPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRG/LYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKS
15761	46129	B	15852	356	671	
15762	46130	A	15853	1	2121	
15763	46131	B	15854	721	2739	
15764	46132	A	15855	1	5828	MQEQQQASSLIRSGNGRLPGSG AQRTPCHIRRDGSQRRVCDDCK QQWWKAKYNIPSGLHACTATL EETHILDGSAHVQVFYKGQLH VMRVPCTDYFDTQKNPNLSHL HGSVMAETAVINHKKRKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQN
15765	46133	B	15856	537	1318	
15766	46134	B	15857	1	411	
15767	46135	A	15858	1	1356	

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15768	46136	A	15859	1	1215	MPYDRPFTVMAAFPLCPACDK EYRDPLDRRFHAQPVACPECGP HLEWLKMGKIVAIGIGGFHLA CDARNSNAVATLRARKHRPAK PLAVMLPVADGLPDAARQLLT TPAAPIVLVDKKYVPELCDDIA PDLNEVGVMPLPANPLQHLLQ ELQCPLVMTSGNLSGKPPAISN EQALADLQGIADGFLIHNDRIV QRMDDSVVRE\RRNAAPF/AGA VLSQHLGDLSDDGIQMQWRER YSLMQNIYDFTPQYVVHDAH GYVSSQWAREMNLPTQTVLHH HAHAAACLAHQWPLDGGDVI ALTLDGIAQPDERSRSEDVDRA HQRGHERDRRRRRSGTSHLTR VDLKEDGKGLKIVRQSLPYGTA SGTHGLYFCAYCARLHNEQQL LSMFGDTDGKRDAMLRSPNR
15769	46137	B	15860	74	2050	
15770	46138	A	15861	2	703	LQARFPLSWRNPITFACYAGL FCLSASIIYP/DHLCPVSVPRFA GPRHRRHLLVLHRGCGLRH/TK RPGPGPGPARALAIWPPDPGC* RCRRPSLPASSLRSSATPTCTST QPALEWCVAVYAICFILAAIAIL LNLGECTNVLPPIPPSFLSALAL LSVLLYATALVLWPLYQFDEK YGGQPRRSRDVSCSRRHAYYV GAWDRRLAEAILTAINLLTYVA DLMHSAHLDFSKV
15771	46139	A	15862	1	849	MAQPLAKQWTPVSPRALLVSIS SMPPRPAADVTVCRRHNRCTLRE LLYGFAAAAQQLNLHGDVCN DGDG/VEVRLREDPETFLVQLY/ QHCPLA\RTGGTMNTQIVPDA ATCPASLSEMNTPGERRYYPF INCTHYGPSFPIIRAMPYDRPFT VMAAFPLCPAC/DKEYRDPLDR RFHAQP/VACPECGPHLE/WGIG GFHLAC/DARNSNAVATLRARK H/RPAKPLAVMLPVADGLPD/A ARQLLTTPAGAGLWLGNGYP RAPDNANSTAMSCASHAHSFG GGHPRGR
15772	46140	B	15863	1	2688	
15773	46141	A	15864	1	1578	

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15774	46142	A	15865	1	877	MQAAHRLRPAYRIKTGKPPAL ADYHPAYQEMLSRKQDRVIDQ IDFGIKDTVEILHMGQIQSMGRE FALSRLFSIHGHNVHGNESPEM GPERRSGFYDEWSPERIIQYYRP AREQLMNELVQILKNTRQHLM TGVSHMIPFVVS GILLAVSVM LYGKGAVPDVADPNLKKLFD IGVAGLTLMVPFLAAYIGYSIA ERSALAPCAIGAWVGN SFGAGF FGALIDAFPR LSEEINPALPEAK VMACLEAVARQDNVDSPQELP PTPLFASRPITRLKSWWAPGGE VESGTHKK
15775	46143	A	15866	3	423	
15776	46144	A	15867	633	771	NNRSHPALCTNRPRTRLVFYP LLAPNA*LAALQK GWAYGAGH NA
15777	46145	A	15868	1	4014	
15778	46146	A	15869	1	180	SGHPFIPLKDLTQIAGDVFNNN LILWANREIIHSVP*RY*HDANI QCFVVISSFVRSQQ
15779	46147	A	15870	815	1905	IFQEHIMDHLPM PKFGLAGLR VVFSEM/WRAEVIWIENVAWA DTIRVQPNYPQLSRRNLHALSL NIFKDEGREAF LKLMETTDIFIE ASKGPAFARRGITDEV LWEDKP KLVIGHLSGFAHQVSQISTHQG SSNWVSPDQLQCNTQTNSPKQ LFSTHCMQCRPNSTNSRQFQS NPVNHALNHQSKPHHPLVYAQ HKAKRAHRAKSITASRKQATTF QQVGAPAGGHTHTSSSHPQTT KALEQVKHLTTRQAILSKAKPQ ATSPIPRDTGPLRGRQFHALNPS TTVIGQPANQRIGQHGHQPQFKP KTPFWPQPKEKVPNRQCTSKTY SNGEQNIPQTYAIRTKNRSTYPR NLKQQPLNPGKAKT
15780	46148	A	15871	1	361	QTTGISFQGRGGAGPGVPTRTQ/ CLRCHGGRHG/HPSHLCKPNKG DPRKIRLKMSWR*PWFAIGPRD WSSSRPKPTSPRGSCRSFIEASK MSAPVVWSTKTHSSRSMLSFSL MEDFVTALSIL
15781	46149	A	15872	1	447	

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15782	46150	A	15873	1	1424	MLLEQLSQHKLDMIISDCPIDST QQEGLFSVRIGECGVSWFCTNP PPEKPPACLEERRLLIPGRSM LGRKLLNWFNSQGLNVEILGEF DDAALMKAFGAMHNAIFVAPT LYAYDFYADKTVVEIGRVENV MEEYHAIFAERMIQHPAVQRIC NTDYSALFSPAKLRRALYHPAS TELHPACGKDFRQLYRRIQNQI QRHALWHKIFDVEIPHPILIIAR VSANMPHTGCRIAIEWPGKVVE AILRLTNDAPAYLPPIGFNHKSK MRSEGMNPYQRQFMELALSNO VLKCGFTLNRGRKSPYFFNAG LFNTGRDLALLARFYAEALVDS GIEFDLLAPAYKGIPIATTTAV ALAEHHDLDLPYCFNRKEAKD HGEAGNLVGSALQGRVMLVD DVITAGTAIRESMEIIQANGATL AGVLISLDRQERGR*CDHRRNG DSRVDGDYSGQWRDACWRVD FARSSGTRARRDFGDSGS*A*L QLQSDLYHHPERPDCLPGREAG NGGTSGGG
15783	46151	B	15874	1	1086	
15784	46152	A	15875	484	729	CTQFRKTCFTCKASNGFCFATS CNLIYTSEIICRGPTG*HNLIASL LQRIDNLRKFIVPTLKYLTRCR LDDNIMIFYAQGI
15785	46153	A	15876	1717	1971	PANAWAEMWEYSAWQRRMYS MG*TSKV VVHPGATDRW*NTN GCYRIFWIAAPFVPAAVIHGNIL PTHGACVHKGFGRAPAGAAVE
15786	46154	B	15877	1	765	
15787	46155	A	15878	103	823	VPACAGLKKEARSLLASPPRLL NTKLQASCALFSPPIQSRQTG ISFQGRGGAGPGVPTRTQ/CLRC HGGRHG/HPSHLCKPNKGDPRK IRLKMSWR*PWFAIGPRDWSSS RPRPTSPRGSCRSFIEASKMSAP VWSTKTHSSRSMFSLSMEM PARMPITSSMPSTPLRQGSVKFE DFVTALSILLRGTVEKLRWTF NLYDINKDGYINQEEMMDIVK AIYDMMGKYTYPVLKEDTPRQ

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15788	46156	A	15879	1	2926	MVKDASQSQASLGLDAFLPAS GVQYTHERSPDSPKLSQECPSG VVNEDTFKQIYAQFFPHGGLMS ENGTGKKASVFGSTGSGALLLE EGERRREQPLIEMRKPPHVLIN YQAKVGGNSIPSPSLCKPAFPPL PSWAVDLASARQKEDASRSLQ NKEEDFYTSQPGFPALALGCCL RVNLLLGHARGISAGSSYPITST PCHLCKLGQEVFAKPLNLQDQ CQQNLVMQVLKLVNCLNDFD IGSSADESADDLCTV
15789	46157	A	15880	1	1521	
15790	46158	A	15881	1	1182	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAINSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASILIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQPF MLKTLNKLQAQNLKLISNFKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNRAPSEI TPHIYNYLIF
15791	46159	A	15882	1	690	
15792	46160	B	15883	1	458	
15793	46161	A	15884	1	719	
15794	46162	B	15885	1	3552	
15795	46163	A	15886	1	321	
15796	46164	A	15887	1	362	
15797	46165	B	15888	1	489	
15798	46166	B	15889	1	1660	

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15799	46167	A	15890	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTIREYYKHL YANKLENLEEMDTFLDITYTLPR LNQEEVESLNRPIGTAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGLQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNAAAYL QLSDL*QT*EKHAMGK/EFPI**
15800	46168	A	15891	1	1177	
15801	46169	A	15892	1	3663	
15802	46170	A	15893	1	1995	
15803	46171	A	15894	1	4191	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLDLQRDLSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ

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15804	46172	A	15895	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEHTNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPI TGAEIVAIINSLPTK KSPGPDGFTA EFYQRYKEELHI NRAKDKNHMISIDAEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNK WKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\RARI AKAILSQKNEAGGITLP
15805	46173	A	15896	1	1740	
15806	46174	A	15897	1	880	
15807	46175	A	15898	1	2777	MGKKQNRKGTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSA MEDEMNMK REGKFREKRIKRNEQSLQE IWD YVKRPNLHLMGVPE SDGENGS KLENTLQDIIQENFPNLASTLS HSGIKLEINSKRNPQNHANTWK LSNLLLNAHWVNNEIKMKVKN FFELNDNSDTIYQNFSD
15808	46176	A	15899	326	3096	QTERTSTPKTHLYVTIHKDQK*I KPQRRGKNRGEKLET LKS RAP VLLQRNAV PQQQRNKAGR RM TLTS*EKKSSDNQTTPSYRRKF KPM AKKLKTL/RKKLDECITRIT NAEKCLMELMELKAKARELRE ECKSLRSQC NQLEER\INKIDRP LARLIK RKREKNQIDAIKIDKGD ITTDPT EIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPI TGAEIVAIINSLPTK KSPGPDGFTA

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15809	46177	A	15900	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERSAMED EMNEMKREGKFREKRIQRNEQ SLQEIWDYVKRPNLRLIGVPET LHPRDEAHLKNLIDAIKNDKGD ITTDPTIEIQTIREYYKHLANK LENLEETDKFLDTYTLPRLNQE EVESLNRPTGSEIVAINSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNREPHE*TPIHNCFKENKI PRNPTYKGCEGPLQGELQTTAQ GNKRGYKQMEHSMLMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQILQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNP RRKP RHYHSGHRHGQGLHV*NTKSN GNKSN*QMGSN*TKELLHSHK KKKNY*QTEQATCKMGENFHN LLI*QRANIQLQ*TQTNLQEK KQPHQKVKGHEQTLLKRRHL CSQK\NHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS
15810	46178	A	15901	1	3285	
15811	46179	A	15902	1	3681	

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15812	46180	A	15903	1	1854	MKAEIKTFFETNENKDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITDPTEIQTIREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE/ RENKIPRNPTYKGCEGPLQGE QTTAQGNKRGYKQMEESHML MGRKNQYRENGHTAQGNLQIQ CHPHQATNDLHRIGKNYFKV HMEPKKSPHRQVNPKEQSW RHHTT*LQTLQGYSNQNSMVL VPKQRYRSTEQNRALRNNATY LQLSDL*QT*EKQAMEKGFPI** MVLGKLASHM*KAETGSLPYT LYKNQFKMD*RLKR*T*NHKN PRRKPRHYHSGHRHGQGLHV* NTKSNGNKSQN*QMGSN*TKE LLHSKRNYHQSEQATYKMG FRNLLI*QRANIQLQ*TQTNLQ EKNKPPHQKVDEGHEQTLLKR RHLCSQKTHEKMLIITGHQRNA NQNHNEIPSHTS*NGNH*KVRK QQVLERMWRNRNTFTLLVGL* TSSTIVEVSVV
15813	46181	B	15904	1	2718	
15814	46182	A	15905	1896	5031	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSK TDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKNPTQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDT FKAVCRGKFIALYAHKRKQERS KIDTLTSQLKELEKQAQTHSKA SRRQEITKIRAELEIETQKTL\Q KINE\RSWFF\ERINKIDRPLAR LIKKKREKNQ
15815	46183	A	15906	4	133	

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15816	46184	A	15907	95	1875	PFFGRKNYRLPSKNMPRRCRSS PLPCSMKMTI*CVLTSTATITRL PAASAQW*LDGRTLVTKNSFR YLHTLHTMGPAPEPNLTILWSE ELPIAFKKYAAQVSIVTSSLQYE NDDL MRTDFNSDDYAIACCVS PMVIGKQM QFFGARANLAKTL LYAINGGVDEKLKIQVGPKTAP LMDDVLDYDKVMDSLDHFMD WLAVQYISALNIIHYMHDKYSY EASLMALHDRDVYRTMACGIA GLSVATDSL SAIKYARVKPIRD ENGLAKDIQGTTEPQFRNSHSR TSGTVTL YLPVSTFVGTGFFIRV DPPKKPLKIRKIEFVEIYEPFSEG QAKAQADRCLSCGNPYCEWKC PVHNYIPNWLKLANEGRIFEAA ELSHQTNTLPEVCGRVCPQDRL CEGSCTLNDEFGAVTIGNIERYI NDKAFEMGWRPDM SGVKQTG KKVAII GAGPAGLACADVLTRN GVKAVVFDRHPEIGGLTFGIP AFKLEKEVMTRRREIFTGMGIE FKLNTEVGRDPRASSFYEEKQL IARKALPFIDNKTMAADSSST VMELLKLLQDRSGLTLLTNSAE AIHVLAQSEIKVVSTGGELNKN TSLQGRITKEIIRRYHVDIMWL PDEL RVEKGFSPTLKLLEAKG QKVALKEAMGSTQSIMVGPDE RRTGFSYLR YQNL MIRVKF
15817	46185	B	15908	271	2118	
15818	46186	A	15909	597	743	
15819	46187	A	15910	573	1066	IRAQNGSPWLSFLVDSVCVLKA CVDAVMRAGICSVSIYWQYQS GVGANSSALSGFSQGAIMMLES IKAEPGLASRVIAFN GRYSLPE TASTATTIHLIHGGEDPVIDLAH AVAAQEALISAGGDVTL DIVED LGHAIDNRSMQFALDHLRYTIP KHYFDEALSG
15820	46188	A	15911	1	2652	
15821	46189	B	15912	1	1494	

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15822	46190	A	15913	1	1733	MGVGSKGTIFGSTTTQHGSFIPY LTGYLTYTHGHSPANPKPAVG GQILTAVLPAHDGYVSRIMTM NTQLTTPLTTATHTARQTASLIS VIGRQLRCFRHSSQPSVLTHVR DDSTQYAQLDMANGQPTSHGY EHWAQLMYATDRRYGRHMSD AARQGCSDTGIVKFSHPEPEMS VRKFTSARSGCVRSGAWNVTV SAQTRVSQALTLLRRVHKSPM NALTVPVMAEAPSQAHGRRQ TRRLSLHQTLRLLLTTPDWGV IRRCVPVWGCLEHLDTAGFPL PNSHTMPLPIGWNDTRKRLHHS AHNGQHDVAQGRRVLGRKVG LTHPKVQQQLGVDGLSLFCVY LVWYIGLHLRRPFLAYTICPSL VYGADLRVIVRLFSDSHHFMAF GNPQPKHLDCQEYALFLLNSM PDNTAEHYRNKIAIYLHCLPED DRIKAIINEIRMAIHQVSPFREEP VDCVLWVKYSQLMPNDYNPN NVAPPEKKLLQKSIEIDGFTQPI VVTHTDKNAMEIVDGFHRHEI GKG/SHASLKLRLRGYLPVTCL EGTRNQRIAATISHNRARGRH ITAMSEVTPELRLLGW
15823	46191	B	15914	1	273	
15824	46192	B	15915	169	292	
15825	46193	A	15916	2	844	KGGVYKTSVSVHLAQDLALKG LRCLLWKGTTPPGTSPMVSRE GDPALHN*CKTQLLCLSYLGEK DDVTYAIKPTCWPGLDIIPFCLA LDRIETELAMGKFDEGKLPTDPH LMLRLAIETVAHDYDVIV\DSA HNRG\IGTINVVCAADV LIVPTP VE\MFDYTSALQFFDMLRDLLK NA\DLKGFEPDVRIFVTKYSNSN GSQFP\WMEEPIPECLPKHGSKK NNVRNANEVKGQIRMRT\VF QAIDQRSSTGAWRNALSIWEPV CN\EIFDRLIKPRWEIR

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15826	46194	A	15917	1	681	MSIGGSGNSLCTRPKQQQGGTG LKQYEVSVPGTLRCLACPQACT LRKEHWIHFAPKSNYDSCRYIE EYFAYEASFMSVQLTELVIKSL EDLASLFMIHKKNPVSIPHTVW YADDIRRGEREAADVLGLTLYE LMLRAGEAAFQVCRSAYPDTR HWLVLCGHGNNGGDGYVVAR LAKAVGIDDTLLAQESDKPLPE EAPLAHEAWVNAGGEIHALNI GWPESEHLIV
15827	46195	A	15918	3	774	VKCSEKCLFLPLGQFSQFIQKLR WIFLDPLFIRKGGQVTPAFAM HLHEYISQGLESILGALDIEGSY DKQRTITIATTPSVGALVLPVIY RAIKTHYPQLLLRNPPISDAENQ LSQFQTDLIIDNMFCTNRTVQH HGLFAANMVLICREGNPLLSLE DDREAIAAAHVLLLPEEQNFS GLRQRVQEMFPGRQINFTSYNI LTIAALVANSMDLAIIPSRLYNL FSRCWPLEKLPHPSLNEEQIDFS IHYNKFSLR
15828	46196	A	15919	1	741	MITVLLIATQFAPYFTEMALKG GFSFAGESAQISALSVGNMFGW SISELMSLGIIGVVVAVGIVASV VLFLRVLSMSWLKEVIGTEKAV IAMCHLRALPGDPSFDAQLGM NWVIDKAWDDLMAQNGGVD AVMFSNEFSLPYLTKGLVPALV AREILVRGMYVRGRKMVAFLV CCVALAISAMYELIEWWAALA MGQGADDFLGTQGDQWDTQS/ GYVLRAAWRINDGDIPRSLSLP PATALWLDNRI
15829	46197	A	15920	1	678	MCHLRALPGDPSFDAQLGMN WVIDKAWDDLMAQNGGVD VMFSNEFSLPYLTKVRPETTAA MARIIGQLMSDIRIPFGVNVLW DPVASFDLAMATGAKFIREIFT GAYASDFGVWDTNVGETIRHQ HRIGAGEVKTLFNIVPEAAVYL GNRDICSIKSTVFNNHPDALC VSGLTAGTRTDSALLKRVKETV PDTVVLAN TGVCLENVEEQLSI ADGCVTATTF
15830	46198	A	15921	624	734	TRTLRQIVDSRAIPFT*ERLHSP NQPKNPYPPEV

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15831	46199	A	15922	1	1923	MPFALGGDLEETPRSDPGVTF ACSLAQPMRKPTGVLGNRFHD TQEPVPVGGPGLRGFHLWHAPP LDRPAQFAAIRTDSSELMSSANP KSFTASPLMTFTPARSRINYRY YPAGTRAKGENEAFAARIHSF LPYRRPVFWATTMGQAKSAIK PMSTAVTRDASVFQTEYERSRF GARPWPLRKAPEAMGRGFHEI GVQCEAPTANTLEPSRRGAVM AAGLSFQRTPWREVLGRGEGSF LGAGSDPVLRALSLASTPFPGE KHVGSWGMGRIVLRSFALASSS LRHSGERIPGTVLPCDDIFACHQ RNYAEVFGIWRTTSSVLQPIEPV EPKCISQFLYIVLERRSSSLISLS FNSASLCRSRHDARYVLQHALF CFTTNDFGQIFTTFVSGSGTR MSLPAEFGVIAQSDQKVLFI DLAVVIRITCLPSTMSWLKEVI GTEKAVI/AMCHLRALPGDPSF DAQ/LGMNWVIDKAWDDLMA LKMVRPETTAAMARI/IGQLMS DIRIPFGVNV/LWDPVASFDLA MATGAK/FIREFTGAYASDFGV /WDTNVARSRIRASTVFRLAQ RCQPDASEYGFRMIARVFDVR GDQNSEASLRVSGIGPRTCAP VAWQSRRFPRLDRSDDVKRF QADTDSLVLH
15832	46200	A	15923	480	900	KTRYSCRGETWSNPQSSQLSAL IAAVRHPATSNVCRSARSCCIL RALRAIQFHTGCSAGNVAPEW CQFAPCWRKPLKVEESDSVFM VIKESLWQELADITDKTQLEWR EVFQDLNHHGVYHSGEVVGLG NLVCEKCHF
15833	46201	A	15924	1	431	SKVFAVAGCVLMTMPDSCN SWQKCRNKT MNKKIHSALLV NLGIYGVAQAQEPDTPAGVS TITADEIRKNPVAROVSKIIRTM PGVNLGTNSTSGQRGNRQIDI RGMGPENTLIL/IDGKPVSSRNS VRQGYRLECGDG
15834	46202	B	15925	1	1352	

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15835	46203	A	15926	31	546	CYCILFVSFPSNRPLCCRSAGVC QRYTPDPFCLGITSRGCRRAKIT ACSFLWKLHPRGALARCQPELS CWRCLSTLLEGVSPSGGTGVR DPYEEAVCPLAELKCCAGRSA VLFRAQRQGRSLSLKLPQLPF SPCVLCLSKLVPVSPNSTRTSKL LSIPYSRGPALLEVLS
15836	46204	A	15927	2	479	
15837	46205	A	15928	1082	1386	ADPFQEREAEKYANPIPSREFIL EHLTKREKPASRDELAVELHIE GEEQLEGLRR/RQCYALPERLD LVKGTVIGHRDGYGFLRVEGR KDDL\YLS\SEQMKTC
15838	46206	A	15929	3	401	
15839	46207	B	15930	1	3675	
15840	46208	A	15931	1749	1941	SQIPTSEAQVMSNLMGTNGVLR PARAYRNEAVLS*ALVSAMYS QTFRNASFGVPQMFSTTSGV
15841	46209	A	15932	5	1465	KRSTTAQIRWISPLTSLKPRSKR QSKSCATKPKK WYVAAPCCWC SPTGISLKTRLPVPAPMAVGAIQ TRLVDQSLRCDANIIVETASAR DPHHFAVLLGFGATAIYPYLAY ETLGRDVDTHAIAKDYRTVML NYRNGINKGLYKIMSKMGISTI ASYRCSKLFEAVGLHDDVVGL CFQGAVSRIGGASFEDFQQDLL NLSKRAWWRCLSATIGCCDC TRGYLGGARITGQISSITVWGVI IPVVGLCHGWFWFSPTLYVDS WNP HHAPFFSAVGSSIAMTLW AFLGLESACANTDVVENPERN VPIAVLGGLGAAVIYIVSTNVI AGIVPNMELANSTAPFLAFAQ MFTPEVGKVIMA\LMEMSCAGS ILGGKFTIAQVFKSSSDEGYFLT IFSRVTKVDAPVQGMLTIVIIQS ELALMTISPSLNSQLKEMVNLA VVTNIIPYILSMAALVIIQKVAN VPPSKAKVANFVAFVGARNSF
15842	46210	A	15933	1	3666	

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15843	46211	A	15934	979	1626	FSATITPPFIALQVRFRHPLDAL LLFVISLWLQLGLPDELSRFTPF CLALPIIALAWHYGWQGALIA LMNAIALIASQTGLLLGAGIQR LRELNQLQKELARNQH LAERL LETEESVRRDVARELHDDIGQT ITAIRTQAGIVQRPAGHPLTDA GNGAGRARYCQPSRMANR*IS VKRKVVEHRCFVDFTFTNDDG AVNVDRRAVRGVFIAAS
15844	46212	C	15935	1	666	
15845	46213	A	15936	1	1137	MGKFGHTEIGEVDVRDWS DAL QAKELQKLPGHSRKLEDPPTSL FMLLNPHSDQFSSNAHHHLHA TAIDDDYTDPTKSTYALGLNWS NSILGGFNISGYKTSYDGDND SSNLNINWNKAFKHATVSVNW QHQLSASENNEDDGLFYVNIS IPFGRSNTATLYTRHDDHKTHY GTGVMGVVSDEMSYYVNAER DHDEPTLPAQNKAQEVLLDVV LDEAKIGVASMLGSRVRVKTW SWFADDKQEIRQGGFAGWLTD GTPLWVTGSGTSKTVLTRYAT VLNRVLPVPTQVASGQCVEVE LFARYPLKKITA EKSTTAVNPG VLNGRYRVFTFTNGNHITFVSHG ETTLSEKGLKLQSHLDREEY VARVLDREAKSTPP
15846	46214	A	15937	323	695	FTGPRRSLEIEVAELKQRLDSL AIGAGGSVCWTLQGAWSPTRA KAGELKTQLATAASLR/MDKH RSNSVGPHDLYFTLLDDYLHV VD TALWLSGGKASLDGGTLLT NDAGEMLFAEHHSAGPL
15847	46215	A	15938	1	235	
15848	46216	A	15939	98	593	MSKVRLMRNLSPAPPNAVAKG ESKPGIMSGWVF*AEWAYLITG *AKKKVYGSS/ARIHLRALRY SNWRQYFAGYTFGRQYWQSPE DDHLPLLREFLARHEYMQKYL LGTESGIQGEELGASDGIKPEEV EWQTAAIEGKLDLLVTLDFRM SSTCLFSDIVLPTAT
15849	46217	A	15940	367	677	LSSCLRATQSAPAVRNWKARFL RCTVVVWQKRSSTGRNMYLPV RPTILKLRPTWHVTW*LSGASL RNWVHCCTRKKKVKCSSAVA* RKRNICPMKLHVSSTRK

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15850	46218	A	15941	1	921	MEMSSLEFLHSICSHLKCHLLY YIASAYNYDWYTQPAKLSFISE GEIKYFTDKQMLRDFVTRPAL KELLKEAVNMERRNRWVDIGP GTELDICISQAYAQFVASTAECC GEGGIKAWDYVRMGFLSRMG VLNNWLTRRRKLLWSARSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLLREFLARYE RPMKKLAGRSSIILAFRGHDQ RDYEFPSKSALNIN*LRWALAS VK*TTACATGVFPVSVTGARRF
15851	46219	A	15942	531	637	SIFARLNASRRC*TSALYALLVR LPHIQITAKGIL
15852	46220	B	15943	120	881	
15853	46221	A	15944	1	1583	MADRVDSKCSRSRPGAVAHNY NPSTLGGRGGRITFWLLSANPSI NRGTLEKESRTVAQRLSVLHGI NAPEFFDKAVFSSLVLTLRDEG YISDSGDAEPAETMKVYQLLAE LITSDLMIFNISATVLYITAFIAC SAAVDLTSLRGTRPYNQRAAA SKEIEDLKKKLTEGEEISGCDVS GSDGDDNEEGKIGEDEEKRNT GGNKVPERTVETPATADAER KALETKLDVEEETRLQLNSRNR KKDLKTRQEHQSLPEKFSGLQK NVLLEAVIDPALIAQLRQAYEE ALARIAQAPAKSVWQPEEYEEA EHEILLAFRALLASDSEFLPSA WQRFIQLNYCSMEEIDELRWS LCTIAMNTAHLSEFCVVLLAER LRWLQEENTGEIDEEESFLY AIAKGNVFNQITLHLPVAVQN DTIDFYQMFARIWLPGAPGAYC DGLHTSKRTTCTTSTHQRQRKD TPPALNPHTATCTPPHTWLGAP PPASMRSGPHNAPTPPFTGSTPR HTHDHTNITNANIPHNVNSN

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15854	46222	A	15945	1	1228	MGVLNNWLSEESLWISRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRI\AQSPAKSVWQPEE YEVAEHEIL\LAYRALLASDSER FLPSAWQRFIQQNLNYCSMEEID ELRWSLCTIAMNTAHLSEFCVV LLAERLRWLQEENTGEIDEEEL GSFLYAIKGNVFNFTILHLPV ARRPDICTQHNDQSRCEGYQIL SDKRGHQHGGGITALYQCGNA DPRAKGERLFFDAPAKDSTQTR AEDAHYAGSNNMSPPDQQGDG RKQIWESVRVHTPVRCQQRSLP VTSYLNNGGEIFNLIGLICRTRRIA ARWVKSHRNRRARSFECLKRHR FVVAFNRRKPGLV
15855	46223	A	15946	71	323	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRLNRNARRKAA\R GSNDLEAEASLPEKKGNTLSRD LIDYVRYMVENHGEDYKVSGS
15856	46224	A	15947	48	627	AAGAVVSAMPKAKGKTRRQK\ FGYSVNRKR\MSRNAKRKAAR\ GLECSHIRHAWDHAKSVRQNL AEMGLA\VDPNRA\VPSRKRKV KAME\VDIEEEA*KNLYRKPYV LNDLEAEASLSEKKGNTLSRD LHLTMYRYMV\ENHGE\DYKAI A\RD\EKNY\QDTPKQ\RS\KIN VYKRFYPAEWQDFLDSLQKRK MEVE
15857	46225	A	15948	796	1301	LTKKDYISPNARKAFVQRLPER NLLTRGLKRQRQPCLSCWCGG QARMPKAKG\KTRRQKFGYSV NRKRLNRNARRKAAPRIE/CVR GLGFRVAVGLGRDGRDDGSA MSLFAGSSHIRHAWDHAKSVR QNLAEMGLAVDPNMAVPLRK RKVLTWQGLGPCLLYSSPAILT
15858	46226	A	15949	512	675	SQDFGPPSAAPSPSGMPPGPSG CSSHRQQEDPPDGAAAPPGHGL RPGRLQELLV
15859	46227	B	15950	1	717	

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15860	46228	A	15951	587	1387	RARSRLGNPLRPLAPAPSNDV GVQRA\FRPIRCRKAQPVPGSV ANRRRLRQHTRPDPLGTNRSEP GWWDRSWSPDQAKSGQSCVA KIKNKNHMIISTDSEKAFDKIQH RFMIKTLISKISIQGTHF\KIIKAIC DKLTANIILNGEKLKAFPLRTE MRQGCPRLSLLFNIVLEVLA IRQEKEIKDQIAKEEVRLSLFA DDMIVYLENPKDSFRKLLELIK EFSKVSGYKIKNQYCENDHTA VSGVGSFQWICGLADVKNAAA
15861	46229	A	15952	3	3201	SERGFAGDLRYPTHFLSTNSV LASVTASLKEHPRGTLTSDGSP ALSRNVGMTVSQKGGPQPTPSP AGPGTQLGPITGEMDEADSAFL KFKQTADDLSLTSPNTESIFVE DPYTASLRSEIESDGHEFEAES WSLAVDAAYAKKQKREVVKR QDVLVELMQTEVHHVRTLKIM LKVYSRALQEV\QFISTAIGRL FPCADDLLETHSHFLARLKERR QESLEEGSDRNYVIQKIGDLLV QQFSGENGDRLEIK
15862	46230	B	15953	83	1969	
15863	46231	A	15954	1	444	SSESAVEFSEPASGSSPSWELGS EGAIRDKKTSLGAHVGLSALGR ALENTIAFQGGKETDVQKSYDSP QGDCL\QDVKGKRPTLE*PSLE NPETRRFLDASYAWRESCLSW HHHTAHDIFAGKPVDPLPGSTR GQDSA VCSQGQFLIVR
15864	46232	A	15955	2	236	SEGAKRDKKTSLGAHVLSAL GRALEKTIAFQGSS/APSKGRKL RSRKVMTRPKGIAWQDVKGKR PTLE*PSLENPEVR
15865	46233	A	15956	1	459	KKVGNYTTPIYRFRMKCHLC VNYIEMQTDPA NC DYVIVSGA QRKEERWDMADNEQVLT TGE RHPLTCLGAL/DPESALGPPKPS RALIVAEHEKKQKLET DAMFR LEHGEADRSTLKKALAH T DHI QEAQSAWKDDFALNSMLRRRF REKKKA

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15866	46234	A	15957	564	1189	AAPKMGERKGVNKYYPPDFNP EEAWLSSTDYHNSHPFRERASG SCSQGILIRFEMPYNIWCEGAC RTNFGMGVRYNAEKKKVGNV YTTPIYRFRMKCHLCVNYIEMQ TDPANFDYVIVSGAQRKEERL GHWRTMNRLLTHRGIEEEAEA WKTDMFRAGTMGRPTAAHF KKALPKLEPHSGRPRAPWKDD FALNSMLRRRFRVPSKP
15867	46235	A	15958	2	1047	FVDGKLHGRGSTDDIGPVAGWI NALEAYQKTGQETPVNVRFCL EGMEESGSEGLDELIFARKDTF FKDVDCVCISDNYWLGGKKKPCI TYGLRGICYFFIEVECSNKDLHS GVYGGSVHEAMTDLILLMGS VDKRGNILIPGINEA VAAVTEEE HKLYDDIDFDIKEFAKDVGAI LLHSHKKDILMHRWRYPSLSLH GIEGAFSGSGAKTVIPRKVVGK FSIRLVNMTPEVVGEQVTSYL TKKFAELRSPNEFKVYMGGHGG KPWVSDFSHPHYLAGRRAMK TVFGVEPDLTREGGSIPVTLTFQ EATGKNVMLLPVGSADDGAHS QNEKLNRYNYIEGTMKMLAAYL
15868	46236	A	15959	163	1388	RLVERWRPSGTLFKYIDENQDR YIKKLAKWVAIQSVSAWPEKR GEIRMMEEVAAADV KQLGGSV ELVDIGKQKLPDGSEIPLPILL GRLGSDPQMKTVCIIYGHLDVQ PAALEDGWDSEPF TLVERDGLT WCSSCRGPYCRGSS/DRLSWKL PSVMWGD SREPHLARLD\HPSG LEPQRP GSTWGGDDRRGGR LSRQLPYAGYAAAQCKGEVRP QVSSSRLVVECSNKDLHSGVY GGSVHEAMTDLILLMEEHKLY DDIDFDIEEFAKDVGAI LLHSH KSHLHLDLLPVVVRLLGQALFH TAHFPDNIPSSSKDILMHRWRY PSLSLHGIEGAFSGSGAKTVIPR KVVGKFSIRLVNMTPEVVGEQ ACGAGTRESMSSLGYP SRAED DSGLSALPSQPQPFILYAT

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15869	46237	A	15960	3	433	FETLFSQVQLFISTCNGEHIRYA TDTFAGLCIQLTNALVERKQPL RGIGILKQAIDKMQMNTNQLTS IHADLCQAITTPAMAV\SHIMLE SYKKYILVSLILLGKVQQLPKY TSP/QLVGRFI\KPLSNA\YHEL HKLY\STNNPC
15870	46238	A	15961	46	1481	TSGSDVAAREDLRWIAAAPPPR AAAFSRACCLRRSGRPGENMA SALEQFVNSVRLLLSQ\GCSCFP GQMTQLCELINMSGELLAKNLS HL\DTVLGAL\DVQEHSGLVLA VLFVKFSMPSPVDFETLFSQVQ LFISTCNGEHIRYATDTWQETV LLKSMVLVLVVIYYQPLRGIGIL KQAIDKMQMNTNQLTSIHADL CQLCLLAKCFKAALPYLDGDM MDICKENGAYDAKHFLCYYYY GGMIYT\GLKNF\ERALYFYG\Q AITTPA\MAVRHIIW/ESYKKY ILVSLILLG\KVQQLPKIFHLKLV G*IPLSLLSNAYHELAQVYSTN NPSELRNLVNKHSETFTRDNN MGLVKQCLSSLYKKNIQRLTKT FLTSLQDMASRVQLSGPQEA KYVLHMIEDGEIFASINQKDG VSFHDNPEKYNNPAMLHNIDQ EMLKCIELDERLKAMDQEITVN PQFVQKSMGSQEDDSGNKPSS
15871	46239	B	15962	1	3411	
15872	46240	A	15963	689	925	
15873	46241	A	15964	1	244	GSAPQSCASPAPVSRSAAPGTA EAAEPWAIVPGVEQKNYYVCV PLGLIGNCTVTSSG\SLDCADW CLKWKSILMESLEVP
15874	46242	A	15965	469	604	
15875	46243	A	15966	286	433	
15876	46244	A	15967	4356	4643	DCPLARNKSKPQTVCLKARQTF QAINFSRALRITGYLTSFP SLRS TLPSSAGDFRASAWA*SGPTV* TLTSVPSVGINSSYIYEPV FRTL L SGE
15877	46245	B	15968	1	1472	

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15878	46246	A	15969	918	1619	KTHVLSWGSPKSTWKAGWLQ KQKTTQEKKAESKAPIEEEPAG AGLNKDKETEERSDGERVAEV APEERENVAVAKLQESQPGNA VSCSGGRRKEDEREDWGKRTQ RTHPPAAAQAPGQCPPGSTEVG AGGGLRWTPSPGRQPAGVAAD MGITVLTVP LQRCLQNSWAKE PVLVVSFVIGSLTVLPPLSPYTK YSIMINEATPYNYPVPVHDDGN M/PDMCSHPQGPQGPSLEWL
15879	46247	B	15970	183	459	
15880	46248	A	15971	864	1197	GSFRLGHGRIPPFHLRGMKESL GPDFGDPCPVCLNSGPGPP\GV SAGGAGAGCGGMGRRDAWVP TGPVAESPGGHLAPISGRQGA PWGGPCGQLGAGTLGQAVCG MTQDP
15881	46249	A	15972	1	441	
15882	46250	A	15973	3	182	
15883	46251	A	15974	23	475	PLEKGRQFYYPQYEDQITFTDYL EEYPDTELVLWILWKQHLLKT EKSLLSDISARLWFTYRRKFSP /ILGGTGPSSDAG\WGCMLRCG QMMLA\QAL\ICRHLGRDWSW EKQIEQPQEYQRILQCFLNRKD CCYSIHQMAQMVGEGKSIGE
15884	46252	A	15975	224	418	
15885	46253	A	15976	743	1220	WCWGHVRVRLVLAAGPSSRGVL LLLVLPSWASFLVRVCAWVG VLGDDGVLGGFLLWLGVVGRP LAVLRADLAVCVGVVCACVPF VVLPICAALVRVGCSLVEAALG \LGARPLKTFFAVVVPLTKGGV VAGSMLVFVPAVGFEVPELLG GPDSIVIGRV
15886	46254	A	15977	3	3492	RKHKVGILYCKPGQSSEEMS NEEAGPAFEKFLSLIGEKVCLK GFTKYAAQLDVKTDSTGTHSL YTMQDYEIMFHVSTLLPYTPN NRQQLLRKRHIGNDIVTHIFQEP GALPFTPKNIRSHFQHVFIIVRV HNPCTDNVCYSMAVTRSKDAP PFGPPIPSGTTFRKSDVFR\DFLL AKVI*RLRNAAEQVPTSFTPWA TRTRQEYLKDLAENCVSNTPID STGKFNLSLTSKKKEKTKARA GAEQHSAGAIA
15887	46255	B	15978	402	2884	

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15888	46256	A	15979	294	1721	AVRPGRHDP SAGLR SAAAASQ* VRGHPGGLCA*GSIQGP GASAA EGPPAHSRAA*SKGGAELRTR* AGGRRPAGPHAQRP*LP*GPRV PLRPPSGTFLLP/PPACTPITSRPS *KSCSRASTPPTWSS*IPASGTSP GMVRTPGEA\PGEPGEPVPVPG PGAARVLPPGVE/PRPCLWARK SPGVFFRPSSGGRRPPS*KTKWS KPTSTAPPR*T*LRCTGLAFPL PPREGEPALGRGALEWTCAPLP LPAAAGPRGRRLLGCGAAPPPR GRVDQEEK\PGPRVEGPQANR NHPALPLSPPLSPT/*PPPAWVP TPALAAAPAPVPTASSSHSPSPG NAPVPTGSPRCLFFLRPYFPVGS ILLPFRCP LISPCRFLRRRQFYG WSSAA YALLPHTPLSAACPSGP TTALHGQPQSSCSCCQEATFTV KSGVVQSGRPSLRQFYVHDFCK IQPQQLLVSHATTKATTD RYST ASCVAR
15889	46257	B	15980	35	314	
15890	46258	A	15981	1	197	
15891	46259	A	15982	3	3889	
15892	46260	B	15983	172	287	
15893	46261	A	15984	8	166	
15894	46262	A	15985	250	1095	
15895	46263	A	15986	366	870	NHSLAKKGTAHGLGMEKCCGR SPFFSFFPSWIAKPTLRSSSSWPH SSSSPSMSSPLQRAVGDTKRAL SASSSSASLPFDDRDSNHPSEA CTTPGGGWEVADGNTDSLAD EGSDFEDSFNRNVKKKAARPP KTPPV/AKQPKKGSRVVHRHSR KQSEPPANDLFNAV
15896	46264	A	15987	30	229	ALETNIGSSYNYGSEDQAEFLC VVSKE LHSTPNGLSSESRKTK\ CYKPEAPGCEAPDHLQGLGVPI
15897	46265	C	15988	1	930	
15898	46266	A	15989	1	609	

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15899	46267	A	15990	1	875	MRMEAGEAAPPAGAGGRAAG GWGKWVRLNVGGTVFLTTRQ TLCREQKSFLSRLCQGEELQSD RDETGAYLIDRDPTYFGPILNFL RHGKLVLDKDMAEEGVLEEAE FYNIGPLIRIIKDRMEEKDYTVT Q\VPPKHVYRVL\QCQEEELTQ MVSTMSDGWRFELVNIGSSY NYGSEDQAEFLCVSKELHSTP NGLSSESRKTKSTEEQLEEQQ QQEEVEVEVEVEVQVQVEADAQ EKGSRPHPLRPEAELAVRASPR PLARPQSCHPCCYKPEEPGCEA PDHLQQLGVPI
15900	46268	A	15991	1	2448	MRRGETRSRRPPQCWAFAHVV SRSSRRGEFFSFDRWKKHRSEV RESAQVPTTKREPVLQHKINIK IVIALVDILFALGLGNLVCVSPV QLFSVQTDSDRATGDQRLPSWT AQRYGTRTLGPDGFTERCPYGP SPESLLCSALPWLRLGMPVAE APQVAGGQDGGDGEEAEPEG MFKACEDSKRKARGYLRLVPL FVLLALLVLASAGLEMLSDPGS RSYGSGLLPAWAKCPKAPHQR SLIPPDYAPGVNHPPPQERCSM GLRTQGTGRHRVLSAQQVAF SVSLLMAKIAFAKQKSDDIIPDF KLFMVTLVHRPNRLSARVLTM VPVLPAPCPMLLPLLEGYKAEV MVSQVYSGSLRVLNRHFSQDL TRRESSAFRSETAKAQKMLKEL ITSTRLGTYYNSSSVYSFGEGPL TCFFWFILQIPEHRRMLSPPEV QALLVEELLSTVNSSAAVPYRA EYEVDPGLVILGQYCEWKPPG RRMQTPRPAMRMEAGEAAPPA GAGGRAAGGWGKWVRLNVG GTVFLTTRQTLCREQKSFLSRL CQGEELQSDRDETGAYLIDRD TYFGPILNFLRHGKLVLDKDMA EEGSQVWTVTSGGWGDRNAV LTGMGRALSFLWLIQYLFCL VRAWVLEEAFFYNIGPLIRIIKD RMEEKDYTVTQVPPKHVYRVL QCQEEELTQMVSTMSDGWRFEL

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15901	46269	A	15992	1	573	MPGLLSRPRRGSLRARPCGGGE ALPEHVAIDVCPGPIRPIQQISG YFPHFPRDLPHDAPARPATASA GRRRPSDGARDHDKDGDHLFG SLTIQHRPW/PAPSPDFPFTPFV LYPG\LKPMDHNLADPCVKL HLRPGARKVPEACQLAPDLQD SSCLTAITKAHDVLTVFLPAAL KIQGNKYLTFIQCQLF
15902	46270	A	15993	500	2022	WTREKEPPGVETHGKASRTTL GLSLWCCLHLSEIQSSFISDCAR PRCSGRLPGSGPMLLATPHVLA TVVASSCSKQLWWLPKVVATD QQQMMLKGLFIAGAPPGSPR/G VQPHLQPIRNMVSRTMEDSCE LDLVYVTERIIAVSFPSTANEEN FRSNI.REVAQMLKSKHGGNYL LFNLSERRPDITKLHAKVLEFG WPDLHTPALEKICSICKAMDTW LNADPHNVVVLHNKGNRGRIG VVIAAYMHYSNISASADQALD RFAMKRFYEDKIVPIGQPSQRR YVHYFSGLLSGSIKMNNKPLFL HHVIMHGIPNFESKGGCRPFLRI YQAMQPVYTSGIYNIPGDSQTS VCITIEPGLLLKGDILNSEILFGV DELSLTGFGLKCYHKKFRSPAR DVIFRVQFHTCAIHDLGVVFGK EDLDDAFKDDRFEYGVVEFVF SYGPEKIQGMEHLENGPSVSVD YNTSDPLIRWDSYDNFSGHRDD GMEGAQHPQIGQDTPPGPSDPP
15903	46271	A	15994	171	720	LSGSSAGKVAAPCVPPSNHELV PITTENAPKNVLDKGERPSRGG NTRKSLE\TTASTGSPR/GVQPH LQPIINMNVSRMTEDSCELGPV YRTERNIAVSFPSTANEENFRSN LREVAQMLKSKHGGNYLQRN VSL/RRLSPSLRHPPGPWPPSQEP GMCQGEPPATLWPMPCGPT VLESPGGPGP
15904	46272	B	15995	145	972	

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15905	46273	A	15996	2	1096	WPVLTAAAGCWLQDPAGHRGG RAGGAGRAVLFLQLQAGRAELR GLRARGWARSWAPAGCQRTG RDAAAAGRRAGRAGALLGFTC LLLAALCGHLGPSWRGGLAPG GEWIWLRASETRGPSGRPALM GSQKIRNITRTRHGPHLHWHSG CTTATPFCLTRSCDAACSLKG LPCLCPCGLSVLIRVRLELRRHQ RAGHTIPRIFQAVVQRQPERLA LVDAGTGECWTFAQLDAYSNA VANLFRQLGFAPGDVVAIFL/E GRPEFVGLWLGLAKAG/MEAA LLNVNLRREPLAF/CLGTSGAK ALIFGEMVRAPPPNAQAPLT PVSPADRLFYIYTS GTTGLPKA AIVVHSSARPSCPSSRTLRAHR
15906	46274	A	15997	397	597	SIKSPEIHSPSTRIRMGCSLPT EAHAEGVIELSRIKCVIIVKSD/ DRIPCHYKYPFQVSPSGSSP
15907	46275	A	15998	1922	3886	EGDNKLRPRIRKLFPLVVLRG DAQGAPPFKNWIMNNFILLEEQ LIKKSQQKRRTSPSNFKVRFVL TKASLAYFEDRHGKKRTRKGS IELSRIKCVIIVKSDISIPCHYKY PFQVVHDNYLLYVFAPDRESR QRWVLALKEETRNNNSLVPKY HPNFWMDGKWRCSSQLEKLA TGCAQYDPTKNASKKPLPPTPE DNRRPLWEPEETVVIALYDYQT NDPQELALRRNEEYCLDSSEI HWWRVQDRNGHEGYVPSSYL VEKSPNNLETYEWYNKSISRDK AEKLLD TGKEGAFMVRDSRT AGTYTVSVFTKAVVSENNPCIK HYHIKETNDNPKRYVVAEKYV FDSIPLLINYHQHNGGGLVTRL RYPVCFGRQKAPVTAGLRYGK WVIDPSELTFVQEIGSGQFGLV HLGYWLNKDKVAIKTIREGAM SEEDFIEEA EVMMKLSHPKLVQ LYGVCLEQAPICLVFEFMEHGC LSDYLRTQRGLFAAETLLGMCL DVCEGMAYLEEACVIHRDLAA RNCLVGENQVIKVSDFGMTRF VLDDQYTSSTGTFPVK WASPE VFSFSRYSSKSDVWSFGVLMW EVFSEGKIPYENRSNSEVVEDIS TGFRLYKPRLASTHVYQIMNHC WKERPEDRPAFSRLLRQLAEIA
15908	46276	B	15999	58	1526	

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15909	46277	A	16000	3	378	GASPD LGGRVLGAGASAESPR GRPFGPSPLGGPPVPGCQCAAP SLRDPWGLWAPVLQMTGSYEF KLNQPPEDGISSVKLSPHTLPSP GLSPSWET\SVRLYDV\PGNFM AVKYQ\HTGARPGNGPF
15910	46278	B	16001	83	2851	
15911	46279	A	16002	296	1186	AENHPGP\LVVEGKMTAPERM KHESNYLRGTIAE\NLNDGLTG GFKGANFLLIRFHGMYYQDDR DIRAERAEQKLEPRHAMLLRCR LPGGVITTKQWQAIDKFAGENT IYGSIRLTNRQTFQFHGILKKNV KPVHQLHSLVGLDALATAND MNRNVLCTSNPYESQLHAEAY EWAKKISKQLLPRTRAYAEIWL DQEKVATTDEEPILGQTYLPRK FKTTVVIPPQNDIDLHANDMNF VAIAENGKLVGFNLLVGGGLSI EHGNKKTARTASEFGYLPLEH TLAVAEAVVTTQRDWG
15912	46280	A	16003	225	386	GLCIPVVRSPCQLWGQKGPCM LRDEGRVFT*LSTKKNCPCGNMR RKYETVDCRR
15913	46281	A	16004	386	739	PLLIHWR FATIEEADHRLAAG ARTFQ/PLCGPPQAQAVWR*AQ *FQADRFPASRWRASSGRRF SRSGRARRCQSVAKRRRQIHEC GRSTPDCRCRMRQQYRCCRDA RRYQNRAPRR
15914	46282	B	16005	10	1468	
15915	46283	A	16006	3	1267	GRSRR**PPSAVPHD\PAVQRER DTQSLSVII*MQIYNFSNTTHLT NHNTFLT FHKTF TAETFQHIGP QPTTDPYHTAEAYCCQLVKLI RRQALRRCWQGAAILKCNSKP TNHCTS

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15916	46284	A	16007	1	1673	MTPICTVFRALSRLPDLWHRSI GTLTEALPQTDKRQEIAVALT SYSGLYGLGYGSKEIQLTYS ESGIWFPYPSPNATHKGCGRHR FACPIAPHFLVIEPQSALGSCSP VEVDPGGCVFGAIRLLVLRDAP SFSRLNLTASGESLQGGPGFV GVSKVYAFLVVRNPTGTPMFT GTFEIPKWPTFPIPPVFGRLGSF VLQLQGPRSPGQCEYDRELVSG SRSVSSCLLVLTGLHLLSYKDA GVDIDAGNALVGRIKGVVKKT RRPEVMGGLGGFGALCALPQK YREPVLVSGTDGVGTRRRAL VLKRFVFIGIDLAMCGNDLVV QGAEPFLFDYYATGKLDVDT ASAMISGIAEEKSEILDGSKVSD GDVLIALGSSGLHSNGYSLVRQ ILEVHRAAADVLSDADAVSW RAPYQTSSGLRKKINQGAVSFV DLHLSEVAQMVNYGFFGDIDV AVIEASALAPDGRVWLTSGIRN APTWLLRAKKVIIELNHYHDP VAELADIVIPGAASRRNNGSIFH AMDRLGNPHVQIDPEKIVAVV
15917	46285	A	16008	425	595	
15918	46286	A	16009	315	721	QCFRALGGHRRRIADRGENIQV WIEPGC/INDLLKWLNALDEKY RSRLVWARSSKNSLCASEANW LEMNNRLSKGDLPCIRPILIIMLI R*TCSYGFTALR*TQNAAGGGD SLAGGIGIFTLVFFTLPAYAIRW LPR
15919	46287	B	16010	652	858	
15920	46288	A	16011	238	2526	
15921	46289	A	16012	21	522	IPCCRSTRKTSGAGLSITSEQRR AAVSRISVTSSLLASAG/VRVYRQ HHARDVRERPVDKL/PR**TPC SARLSLYGPSR*WW/MARVLIF VTLPVRSRIVTVSPMRIGFSNRH RPEIKLAKISCKPKPRPTPSAAT SHCNFDHSIPIIEKPTSPPISSRY LVMVVMA
15922	46290	A	16013	2	527	

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15923	46291	A	16014	1	1734	MVNGCDSTNASSYANVNGCDS TNASSYANGERCDSTNASSYA NGQVRSTNASSYANGERVRL DNASSYAIGERVRLDERTSYAN GERVRLDERILLANGDRVRHHE RILERKATFNNSGTTCCRAVYS RVSAMTAPDKAFTPHRQRCRLP DATLARLIRPQIPAPSVGRIRRL RRIGNSANCLMRRLRVLSGHKF PHHPMPNVSANGYRSFPFMA YMTFFGYLTAWSYCLCGCRW GSLKSPPLALCPVLVPGDGA VDTRIDAVLVALANLAAVRLYA KSSSAAGIINFVVLTAALLAVT AACTVATYALRTGKNRQYRA MQSFRRSSIDNRVDTFFKGTGA LGISVTVIAVTCKSRLVYPIPVY TGLSLPQRPAVVKVNEGSMET KDLIVI/GAGINGAGIAADAAGR G/LSVLMLEAQDLACATSS/ASS KLIHGGLRYLEHYESACEALAE REVLLK/MAPHIAFPMRFRLLPH RP/HLRPAWMIRIAENIS/DFVEP KLCLPRMGTRESVLPGVCRNY ESTITSVISVSPCERDMANYVPR HSAGYRRRFYPMTQPIKDAVEP VDQDWKAGKEMAASRS
15924	46292	A	16015	1	5895	
15925	46293	A	16016	170	371	
15926	46294	A	16017	216	477	
15927	46295	A	16018	2	263	
15928	46296	A	16019	1	2862	

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15929	46297	A	16020	1	1567	MKLNKAGFNVPEYSLLKMPP VGCLISALKKAEDRQEVLRLF NPAESATCDATVAFSREVISCE TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDVAHDSRSIQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLERKDLALNQAMIPLGSCT MKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNSSGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIARIEKMGVP\IKCTTEV G\NTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIAVDFLQ RARQAQGDISIPQSALIIGGQDV AMDVASTLKVLCQAVTCVAR EELDEFPAESEKFTSARELGVSH DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRNKSAGNHP
15930	46298	A	16021	62	329	
15931	46299	B	16022	289	334	
15932	46300	A	16023	1	2991	
15933	46301	A	16024	418	3156	
15934	46302	A	16025	1	2169	

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15935	46303	A	16026	800	2406	SSRRMFPPAIRLLLLICLPARRWK SAL/GEEQLQNLQHISQEMGISP SLFSTQPLWQIAMVLQATQAQ KLGLRAEYGIDYQLLQAAKQQ HKPVIELEGAENQIAMLLQLPD KGLALLDDTLTHWHTNARLLQ QMMSWWLECEGGERERIFPVS KRMGKKLDAVFGDNHTASLTE TEEYRKSQVHFCIDKREISSG NYQSIQGCRSAFFIPSNSTRK RGESMYRMDKLTGAAAYGAS AGSILNGMLNAYSPEQWNAIG VLTTAAAGAEMNPTLRNKLVG AIVGGSGAITIAAVMLGNADGL EGRRYYAYQDVVGWVTVCDG HTGTDIRRGHRYTDKECDNLL KADLRKAIYISGYSGTNGIRDS LLFSSLWLIPVFLFPKRIKIIAAVI GVAFSRFIASHLAVAFESDPEAE IRQLNSRRVELERALS NHENDN QQQRIQFEQAKEGV TALNRILP RLNLLADDSLADRVDEIRERLD EAQEAAARFVQQFGNQLAKLEPI VSVLQSDPEQFEQLKEDYAYSQ QMQRDARQPGVCP
15936	46304	A	16027	2336	3105	HGNATIALIASQTRDHPVDLLL SLLVQSLT/GRLRELNLQSLQKEL ARNQH LAERLLETEESVRRDV ARELHDDIGQTITAIRTQAGIVQ RLAADNASVKQSGQLIEQLSLG VYDAVRRLGLRLRPRQLDDLT LEQAIRSLMREMELEGRGIVSH LEWRIDESALSENQRTLFRVC QEGLNNIVKHADASAVTLQGW QQDERLMLVIEDDGSGLP PGSG QQGFGLTGMREVRTALGGAFH ISCLHGTRVSVSLAQRHV
15937	46305	C	16028	1	1374	

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15938	46306	A	16029	1298	2896	GAFTCCATAGGCMNIRRNRL WIACAVLAGLALTIGLVLYALR SNIDLFYTPGEILYGKRETOQM PEVGQRLRVGGMVMPGSVQR DPNSLKVTFTIYDAEGSVVDVSY EGILPDLFREGQGQVVVQGELEK GNHILAKEVLAKHDENYTPPEV EKAMEANHRRPARPSIMMPEIG NGLLCLALGIALLLSVYPLWGV ARGDARMMASSRLFAWLLFMS VAGAFLVLVNAFVVNDFTVTY VASNSNTQLPVWYRVAATWG AHEGSLLLWVLLMSGWTFAVA IFSQRIPLDIVARVLAIMGVSV GFLLFILFTSNPFSRTLHLAYPN RCQPINWRGRHLVWYLLLFVIS LWLQLGLPDELSRFTPFCALPI IALAWHYGWQGALIALTMNAI ALIASQTWRDHPVDLLSLLVQ SLTGLLLGAGIQRLRELNQSLQ KELARNQHLEAERVLETEQSVR RDVARELHYDIGQTITAIRTHA GIVQRLAADNASVKQSGQLIEQ LSLGVYDAVRPLLGRRLRPAQLD DLTLEQAIPLT
15939	46307	A	16030	15	277	KIGQKAPLGEARGGERTSRTA KNFGYEEMLSELEA/HRRG/WL KRV*PRMKLPPEALVETFIAQLF DAPSQIMPLTSPHLLIAIEMGS
15940	46308	A	16031	1	2916	
15941	46309	A	16032	1	2862	
15942	46310	A	16033	1	3099	

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15943	46311	A	16034	1	1567	MKLNKAGFNPESYSLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCSE TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDVADHSRSIQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLEKDLALNQAMIPLGSC TKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNSSGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIAIEKMGVP\IKCTTEV G\NTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIAVDFLQ RARQAQGDISIPQSALIIGGGDV AMDVASTLKVLCQAVTCVAR EELDEFPAESEKFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRNKSAGNHP
15944	46312	A	16035	367	849	NNFCSTTSHHGQHHHTDHRCG EQNVCHRDAICQTLFRITKDDSD NFICLIEAQSACHKDVNYNHDS QKNAADHHDKQQ*SPANFMPD TINDGFAERCINHQNGRLVSF RNPFFIARHPVTNPRPGKMPQH KRQQQLQHNFTDLLKAAPCTV NIHHQTNQQW
15945	46313	A	16036	1	1066	MHQRPRTRNAVEQHRFSRQLY YALHAFEITIPPLRMRRGSPAL VNNKLSLEKRFSTRLKIDDDA LARLVSCAWPGNDFELYSVIEN LALSSDNGRIRVSDLPHEHLFTEQ ATDDVSATRLSTLSFAEVEKE AIINAAQVTGAFPWWLGDVKL TIPLTLGMVAAALTDLDDRLAG RLRNLIITLFCFFIASASVELLFP WPWLFAIGLTLSTSGFILLGGLG QRYATIAFGALLNAIYTMIGT SLYEHWYQQPMYLLAGAVWY NVLTLLIGHLLFPVRPLQDNLAR CYEQLARYLELKSRMFDPDIED QSQAPLYDLALANGLLMATLN QTKLSLLTRLRGDRGQRGTRRT GIL
15946	46314	A	16037	1	951	
15947	46315	A	16038	576	669	

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15948	46316	A	16039	1	1047	
15949	46317	A	16040	2	425	
15950	46318	A	16041	148	1052	RARRGVSVKAKKQETAATMK DVALKAKVSTATVSRALMNP KVSQATRNVRVEKAAREVGYP QPMGRNVKRNESRTILVIVPDIC DPFFSEIIRGIEVTAANHGYLVLI GDCALQIQKEKPFIDLIITKQIDG MLLLGSRLPFDASIEEQRNLPP MVMANEFAPLELPTVHIDNLT AAFDAVNYLYEQGHKRIGCIA GPEEMTLCHYRLQGYVQALRR CGIMFCRFTAEGVQEIDYKDIA TLKNYITESGGVTELIHFIAEY SDNQRANAGGGVEDEDIEVLES LRLNENHAIKERCERS
15951	46319	A	16042	3	741	
15952	46320	A	16043	237	1542	FHRLWTGRFLPSPPSRRGTDNA AGRTKMPPSPVIF/WFALAQFV GVKHSRSIPFAAVRSHKARIRSI SRSDVATSILPQLS*RMFP*SQK ALVARFPARQNCAFRLPGV*/L DPGMDHAAVVARLVTRGGIV WFGGRDFYRSVDDIHFGAWGDL AKECFDIVIPQ'NTARTYPHAN AEIGVRTMKQINAAIGRQTNR MAHWVIRSSRHYRRQLNSLCFI TGADVCRWFPQHIVPGRDSVA HVVVQHVITYRLLRGLLHFAG DGGVNAITVFIGTFAITVIHLLA HHFAQVRRRESNLRRVIVSVNR LSACLIELLLGDIPFIQHPRQHD VTPRDGTIHRVERVEGGRRFRQ PGYHRHFVQRQLVDRFSEIDLC RSTDTIGAVTKVNLVQIKLEDL VFRQQLFNANREEDFLNLTHQR AFWTEEEVSRQLLGNGTCPL
15953	46321	A	16044	1	1059	
15954	46322	A	16045	104	349	RSAASPWKTRKALVCCSAVVIS PALKISMIVTISVQAHG*LRKGS GVKAALSWWKFQPTMKPTITS SLTGRRISCRSRVKR

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15955	46323	A	16046	1056	2373	GPRLVQRSDHRPHDANYRQYL AGLSVHDDPLHGLAEXTIPDDL YEASAMDGAGPFQNFKITLPL LIKPLTPLMIASFAFNFNFLVLI QLLTNGGPDRLGTTTPAGYTDL LVNYTYRIAFEGGGGQDFGLA AAIATLIFLLRIPRRTTALQGMR SNLNMESSRWARANRRLKAIN TSLTLITQSCETYLIQNTRPELI TDTFREFFDTPVETAQDVHKQL KRLRRVIAWTGERETPVTIYSW VAAATRYQLLKRGVISNTKINA TEEEILQGEPEVKVESAERHHA MVNFWRTTTLSCILGTLFWLWT GWTSGSGAMVMIAVVTSLAM RLPNPRMVAIDFIYGTALALPY GGGRPVAVGVFYGGCYCTRDG LTRAPPPNAAPTAARYGPRTTP RTLKRGITDVRCEKRHHQRQA RNAGYQTVFSDLDRLRHPALR

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15956	46324	A	16047	1	2581	MVLMGLAQNIWQFLILRALLG LLGGFVPNANALIAIQVPRNKS GWALGTLSTGGVSGALLGPMA GGLLADSYGLRPVFFITASVLIL CFFVTLCIREKFQPVSKKEML HMREVVTSLKNPKLVLSLFVTT LIIQVATGSIAPILTLYVRELAG NVSNVAFISGMIAVPGVAALL SAPRLGKLGDRIGPRKILITALIF SVLAVIPIRHFEMRSKESRPSAW VTPKGEWGKGSVELVEIPTNDE TNDNIVAYWTPDQLPEPGKEM NFKYTITFSRDEDKLHAPDNAW VQQTRRSTGDVKQSNLIRQPDG TIAFVVDFTGAEMKKLPEDTPV TAQTSIGDNGEIVESTVRYNPV TKGWRLVMRVKVKDAKKTTE MRAALRVWNKPGQNHQHLGN GFYGGQVYGGYLETMFGGAGAE VLYRPLDSNWAFLDANYVKQ RDWRSKADMMKFTDYSVKTG HLTAYWTPSFAQDVLVKASVG QYLAGDKGGTLEIAKRFD SGV VVGGYATITNSKEEYEGGDFT KGVYVSVPLDLFSSGPTRSRAA IGWTPLTRDGGQQLGPGYTDLL VNYTYRIAFEGGGGQDFGLAA AIATLIFLLVAIMFPLLMVVAIS LRQGNFATGSLIPEQISWDHWK LALGFSVEQADGRITPPFPVLL WLWNSVKVAGISAIGIVALSTT CAYAFARMRFP GKATLLKGML
15957	46325	A	16048	1	765	
15958	46326	A	16049	869	1012	MAISFMMSCFVT*VAANSAILL SMSWRA*SNSNGP*LANSILLS AAC

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15959	46327	A	16050	1	1854	MTLSCNSTDFEKT VTSVPALPD VVSDSDMSLNALSVTLADNVQ LSFRSDSYSGQPSVIYTTTPQRPT AGSEDAPVWPEAFTEDVRHNR PPYPVIPRATRPACLARERMAM YMRPQIKTIGKAPAEELSNPR MQGPQLSSASTIPVTPFWLFG SHAAGHFSQHAHRTALTGHFS HLATTLKGLALEGNAIFTITRFT RPYGHKNTTPHSPLCSAPHSPIF NSRRKVYQGHPQWWAFIHS RPGSSSHSILHCFALVCPGLVV QRDTPHPIIRPALCPPIAIAFSLSL WLGNPSPFSGTQHLQGPKTFFQ QASPSSKVCPRKLICTVIPQQRV ASHHHFHGHNRYYQLGLPVQH CTLQGVIRATHFIPRTARNQISH VSWGAGPAHSDSQGKQDLE/H EPIKPLDNSEKASKV/SQALET TTTAEKVQRQ/PVIAHLIRATER FNDR/LGNQFGFVLAS/HPMLL QDIFDKILQNIS/DPTLAATLKNT INTAVHSHLVPAGADGIFLLLRP FDAVCAAWIATAEYKDYPGMP GKTHLKIRLMRRERLIGIRFYSG LLPGTKAPYSRTLAFKRVLHTA LSLHLGLGKTCTTGFECLSLTLL EYASNAFTYWPDWHINRIKKN N
15960	46328	A	16051	249	724	EKVKKTQRKEIENVTNITGVRQ IELWRRDDLQHPRLDEVAEEVP VALVYNGISHVVMMA SPKDLE YFALGFSLSEGD/IIESPRDIFGM DVGVPACNGLEERRRALDG/R TVAGCGVCGVEQ/LLNDIGKPV QPLAPFTQT/FDLNKLDDALRHL NDFQPVGN
15961	46329	A	16052	71	408	RYLSTASQTNSIQIGAGLSRSRA FTTFGSKGILLSHTSVFIPDRCT SFSMMPTCSASLTSHCPFQMTS LLSSHHP/FK KKKFGT\KTGHCL CPSLNCLPCCFSQIMVIKQVIL
15962	46330	A	16053	668	905	CLHVLHHLTSHCPFQMTKPYST IHFLPRMTSLLSSHHP/FK KKKF GT\KTGHCLCPSLNCLPCCFSQI MVIKQVILEK KKK
15963	46331	A	16054	834	1057	ARLLFMDLLDERTLVAVERPL\ VTSLSSHHP/FK KKKFGT\KTG HCLCPSLNCLPCCFSQIMVIKQV ILEK KKKTK
15964	46332	A	16055	1	1011	

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15965	46333	A	16056	191	631	NLLRGNKMATQSSPVITDMKVI PVAGHDSMLLNIGGAHNA YFT RNIVVLTDNAGHTGIGETPGGD VIYQTLVDA\IPMVLGQEVARL NKMVPQVHKGNQAADFDTFG KGAWTFELRVEAGAGLEARLL DLLGKALNVSGCELLGHGS
15966	46334	A	16057	2	335	GARQQQKFVLIAGGFP*QLL*T NAVIGREFRNVQECIGLHTAGF ANAVTKHFGKCAIALHNMAFR IEDNHRSVEMVNGNNQLSGLFF LRH FYAGIPYQRQVINPPLGAH
15967	46335	A	16058	736	910	RVSTPRATGTVPQRDYPLSVVA TG*PDSFHTYLFVRTY*K*V*VL AYLNTRQNDGDFP
15968	46336	B	16059	17	1699	
15969	46337	A	16060	3	440	
15970	46338	A	16061	1	564	
15971	46339	A	16062	1	1062	
15972	46340	A	16063	203	425	LNNWIISWLLHMMCLMKVAN CFRS*DRRELAVSAFFVLL*AM RLRRSSSGFLANLAHLQKMKL NSSTYVPPTKH
15973	46341	A	16064	402	713	RGVAISLGQSKSHGYIHFQVAQ REPEILG\DSIKAVRWCSLHGRL M***M*RD LKQWFSAP EA*VSL GTL CVIGQKAVGSLALMSWEP TPRPMGLLSTSR TLYS
15974	46342	A	16065	944	1305	LPLWFISALRLAGIAVWCVLST GFEQIRMIKAFGLEDRQSAL/FA ADAEDTGKKNMRVAR/IDARF DPTIGWPSSLGLLFSNRTPWVPF PFFFQVPQ\LHTFIRGILIWKTFP FWIFPFPASSW
15975	46343	A	16066	1	756	

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15976	46344	A	16067	50	1191	CLTIAVFFPAPQCPEMFSPICHT ARDGERAASMIQDYIFCFFSASF MKLKPERMHSHERAQTSDMLK DCRRHLPILMAGGMFAVLRK KHQQQTFIERPRISLTCMLPSW ATFLWLFTRIGQVLVTCLLMSR ECFVNE/VQVIATVSVNPQVN PDIVAMIGASAALSLSGIPFNGPI GAARVGYINDQYVLNPTQDEL KESKLDLVVAGTEAAVLMVES EAQLLEDQMLGAVVFGHEQQ QVDSRGSPKGNRTCDNYIVIEG LIDYVNDMIENVSEEAFCVENR IMRHSDDHSCIVVRCLSLFALD LVLVVIASVSVNPCLLEVTRLR AASIVSQPNLNISDTWGIGAILY GAYTCSCIADPHKMMSSGPMY SHSCVEK
15977	46345	A	16068	401	1518	LILFMST/ALLDAVVKKNRVRLI PYMLALYVLAFLDRSNIQAKQ TYQIDTGLSNEAYALGAGIFFV VYAFLGVPANLLMRKLGARTW IGTTTLLWGFLSAAMAWADTE AKFLIVRTLLRAAEAGFFPGMI YLTSQWFPQRNRASIMGLFYM GAPLALTLGSPLSGALLEMHGF MGHPGWFWMFVIEGLLAVGA GVFTFFWLDDTPEQARFLSKQE KTLLINQLASEEQKQVTSRLSD ALRNGRVWQLAIHYLTIQVAVY GLIFFLPTQVAALLGTKVGFTA SVVTAIPWVAALFGTWLIPRYS DKSAAKRYTRPHRECGYFSAPY HPPKKVRNNAPHSGPGPICLIRL RVRVRPNLGIEVYKHDSPPNNA
15978	46346	A	16069	283	822	

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15979	46347	A	16070	1	1400	MTDLIQRPRRLRKSPALRAMFE ETTLNLNDLVLPFVEEEIDDDYK AVEAMPGVMRIPEKHLAREIER IANAGIRSVMTFGISHHTDETGS DAWREDGLVARMSRICKQTV EMIVMSDTCFCEYTSHGHC LCEHGVNDATLENLGKQAVV AAAAGADFIAPSGAMDGQYDV FVRNENYWGKPAIKKITFNVI PDPTTRAVAFETGDIIDLLY GNE GLLPLDTFARFSQNPAYHTQLS QPIETVMLALNTAKAPTNELAV REALNYAVNKKSLIDNALYGT QQVADTLFAPSVPYANLGLKPS QYDPQKAKALLEKAGWTL PAG KDIREKNGQPLRIELFIGTDAL SKSMAEIIQADMRQIGADVSLI GEEESSIYARQDGRFGMIFHR TWGAPYDQRPSQSKRVRQR*F QAQQD*MKKPTQSKWNRATR VRGGREILTKFVLTA PLKWLKR SNSRRVSFAG
15980	46348	A	16071	592	1427	IPIGVTPCFSTLRRTLFALLACAS FIVHAAAPDEITTAWPVNVG PL NPHLYTLNQMFQAQSMVYEP LV KYQADGSVIPWLAKSWTHSED GKTWTFTLRDDVKFSNGEPV D AEAAAENFRAVLNDRQRHAW LELANQIVDVKALSKTELQITL KSAYYPFLQELALPRPFRFIAPS QFKNHETMNGIKAPIGTQ PWN LQESKLNQYHGFGRNENYWGE KPAIKKITFNVIPDPTTRAVAFE TGDIDLLYGNQRLPLDTFARF SQNPVYHTQLSQIWNQ
15981	46349	A	16072	1	1071	
15982	46350	A	16073	585	1072	RPARDVPLPIRGLQPSLRGPQQL PEKPAVEVRLDKWLWAARFYK TRALA\REMIEGGKVHYNGQRS KPSKIVELNATLTLRQGNDE RT VIVKAITEQRRPASEAALLYEET AESVEKREK\MSPRGPPFVGAP KNPRGFLKLNALTMPHPDRRP DKKERRDLLR
15983	46351	A	16074	36	356	ASHTLARKSC*S/PSLLYQENQA HNQMPASELKASEIPFHPSIKTQ DPKAEKSPRSKR*L*QRQVLP DPAADLSVKPPGPLMLPLCYLS GPADITVLKASQDGLIIA

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15984	46352	A	16075	1	2111	MNTPLQSAHTHLTLVEFIAYLV SDSPFPAASTLSLPTCNFDPCPT KLGAGTMPPAAAGGQRRPHAA PPAAYPHRNKVRAAEARTSRA VRREYEAGDEASGRRGRGGRM KSVQNARADRGMWVRERRAV VRGQENTVVVFAAAASPESDFL QIVLRDIAREMVPEYKSDLQPR TQMDAKKPRKCDLTPFLVLKA RKKQKFTSAKHLWVQRKGKG VEDHADWQGQIWVGVEGKSA EGQGLNLTGAFNRSPENKVSPQ GPALNALEIDSSYLDPAALP QGWQGLLFPPLGTELVGSKLS VQIQKPPSNIKNSRMTQVFHKN TSVTSLPFVDTKGKKNTVSFPHI SKKVLLKSSLLYQVSADGLDPE KAGERPGFSPKPVLERPRIVGKS TVAAEEENQAHNQMPASELKA SEIPFHPSIKTQDPKAEKSPKK QKVTLTAAEALKLFKNQLSPYE QSEILGYPELWFLGLEAKKLDL APEKFSKTSFDDEHGFYLVH DHIAARYEVLETIGKGSFGQVA KCLDHKNNELVALKIIRNKKRF HQQALMELKILEALRKDKDN TYNVVHMKDFFYFRNHFCITFE LLGINLYELMKNNNFQGFSLSI VRRFTLSVLKCLQMLSVEKIIH CDLKPENIVLYQKGQASVKVID FGSSCYEHQKGLPSRLRSVT TTSMILNKVLRFSEPKLPHLQFE

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15985	46353	A	16076	28	1327	GYKMPVITLPDGSQRHYDHAV SPMDVALDIGPGLAKKPLVIRQ GAAGLMAKLVDACDLIENDAQ LSIITAKDEEGLEIIRHSCAHLG HAIKQLWPHTKMAIGPVIDNGF YYDVLDLRTLTQEDVEALEKR MHELAEKNYDVIKKKVSWEHA RETFANRGESYTV\SIVEENSAD DDKPGLYFHEEYVDMCRGPHV PNMRFCHHFKLMKTAGAYWR GDSNNKMLQRIYGTAWPDKKA LNAYLQRLEEAARDHRKIGK QLDLYHMQEEAPGMVFWHND GWTIFRELEVFRSKLKEYQYQ EVKGFPMMDRVLWEKTGHWD NYKDAMFTTSSSENREYCIKPM NCPGHVQIFNQGLKSYRDLPLR MAEFGSCHRNEPSGLHGLMR VRGFTQDDAHIFCTEEQIRDEV NGCIRLVYDMYSTF\GFEEKIVV
15986	46354	A	16077	1692	1776	
15987	46355	C	16078	1	1341	
15988	46356	B	16079	83	373	
15989	46357	A	16080	2	64	
15990	46358	A	16081	1695	2293	EMISNPFIPSSILPLAKIRNIGIMA HIDAGKTTTTTERILYYSYTRSL GDVDDGDTVTDVFMAQERERGI TIQSAAATFEWKGYRVNLIDTP GHVDFTLEVERCLRVLGDGAVA VFDASAGVEAQLTVWRQADK HNIPRI\VFLNKMDKTGASFKEYE VITISLQKSGITKLCFFCVLKL SQERCQASKCNKIEGQRFNQ
15991	46359	A	16082	1	2901	
15992	46360	A	16083	1196	1740	FWLKAMPTIVTASPRWFSC/LR EIRSAASAIATAIQAIARPSTV IATLLSNHGNSSDSTSVEMK AIINKLRILRGRSRPQRTRGPTPS SSANGTISQVNMVLKNGSPIEL PSPSCLCTNGSSVPSNTTSIAAT SKTLFANSKDSRDHSALFTRER TLCPRAANSSEPANHQQHKGED
15993	46361	B	16084	49	398	
15994	46362	A	16085	378	566	
15995	46363	A	16086	1	2184	
15996	46364	B	16087	311	4963	
15997	46365	A	16088	12	335	
15998	46366	A	16089	1034	1400	

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15999	46367	A	16090	1767	2973	SGARRLAG*KPGNAVSAAPFYP YARPV/SMISPLIPC*CWKC/D PAAKROFRERTAVRCVAQFVD VGKLIPFWGLCVGIYATNSAET FLHRVVQLLNDSEHTLQDAIT IRDEFTATPSPADEVAYIQLSG GTTGTPKLIPRTHNDYYYSVRR SVEICQFTQQTRYLCAIPAAHN YAMSSPGSLGVFLAGGTVVLA ADPSATLCFPLIEKHQVNVTA VPPAVSLWLQALIEGESRAQLA SLKLLQVGGARLSATLAARIPA EIGCQLQQVFGMAEGLVNYTR LDDSAEKIIHTQGYMCPDDEV WVADAEGNPLPQGEVGRMTR GPYTFRGYYKRSSVLGKGSDCS FGVFLPGLLPSASSVRRDSNVSI RNVVSLINSSRWKSGFTWHDN VLQLDGSFPLT
16000	46368	A	16091	845	1920	YPMMRK/RLMKLWREAKALHS DPFEPWASIEDADKAKSSKQA RGRGGFVRSSWQEVNELIAASN VYTIKNYGPDRVAGFSPIPAMS MVSYASGARYLSLIGGTCLSFY DWYCDLPPASPQTWGEQTDVP ESADWYNSSYIIAWGSNPQTR TPDAHFFTEVRYKGTKTAVATP DYAEIAKLCDLWLAPKQGTDA AMALAMGHPPERESGRYRLIPV PASGYPPDPAPEWDQFPHVEL CDTANGCPLPELASPAGYTSSIN RVSTCVSTLAKSSYSRVVRVKR LRRRFNGGVHFRRVVAVVIDQ HCRTAFTIHWLQREFTEEIKTAT SPLEAFKRPQNSLVVNALFRSN RNAAAAFSAL
16001	46369	A	16092	1	209	VSFMIIAALMMMIGDTGWLLV AAGFVGAIVIAS/ARPGRNKR IALISAIGMSIFLQNYVSLTEGSR DVA
16002	46370	A	16093	194	657	CLDHLRAVQSLRLPLSVPAAM RPGAAIGYTMVYGIIGMIN/FAH GEVYMIGSYVSFMIIAALMMM GIDTGWLLVAAGFVGAIVIA/S/ AYGWSIER/VAYRPVRNSKR LI ALISAIGMSIFLQNYVSLTEGSR GLATEMFLEKGDNGTEDGRAR
16003	46371	A	16094	1	3303	
16004	46372	A	16095	3	5071	
16005	46373	B	16096	144	326	

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16006	46374	A	16097	282	599	IPVSI SGCHLAGAGTQTASGVP VHPHGHLAHQRQSFIGNTKTEC WPISSVPPHHW*A**TDIGAGSG DDQRVLDVWWNWRTKE*P*W W*PTNGLCRKVANRQAAR
16007	46375	B	16098	1	276	
16008	46376	A	16099	812	1084	
16009	46377	C	16100	1	1608	
16010	46378	A	16101	173	504	SADSKPVLPRTSASLVASACSTR CGLRQASMESNNLTMVFGFSIG KVWMRS*NSATSLAKSRISFGT RRRWHSCTN/SNTRRAMTMM TRPEFWRRQPCGLSIAAIESVIK V
16011	46379	A	16102	1	816	
16012	46380	A	16103	742	1182	PAFIECSKAQENNHKGNCYQSG SLVSR*AFLIRHTRPVITNARR*F *RKVFHQRHGIAGTGSWRGFPL NLH*RQTVVAFQSRRAIHPM*S GKGREWHHFAVGAADIKFIDIF WQHTEFGIRLNTRRAMTMMTR PEFWRRQPFTEIVA
16013	46381	A	16104	550	884	KRYGMAASFHSGEITTHRTPAP WRMVVMSPARSMADLAQTA WRG/APRPLPDTLATMTPQAY/ NSIQYDAEKSLWHNVE/NRQLD AQFFHMGMGFRRTLWAGITN AQVCGWTA

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16014	46382	A	16105	2363	2856	MLTLWSSPTTTRRWRWAASSV ANTLA*MTLSMAAMLSPQVDV RFATLCHDLGKGLTPPELWPRH HGHGPAGVKLVQLCQRLRVP NEIRDLARLVAEFHDLIHTFPM LNPKTIVKLFDSIDAWRKQRV EQLALTSEADVGRGTGFESADY PQGRWLREAW EVAQSVP TKAV VEAGFKGVEIREELTRRRIAAA SDTIPQLNEHDIHRRRH NKAIN GERDQRNALNQLQEGFNRYQR HHKSGDQPNGKHRDIAACQEA PALVEIERRCAHHHRHRQQRK SEQHAARFGIANGDLVRVWNK RGQILTGA VVT DGIKKG VVCV HEGA WPDLENGLCCKNGSANVL TADIPSSQLANACAGNSALVYI EKYTG NAPKL TAFDQPAVQAN TRPLRLARNQHRAFR CRITFHR FTRIMWVEEIGQRFGNHPFGRV RIQDSL CVCGALRYISATFN VW RKRAVTCVRSFGSDFTGSPPLR APKGESIRLLALREAGIIHILAL GEDYKMEINESRTVLKTEDNSY SFDVFIDARGQRPLKVKDIPFPG LREQLQKTGDEIPDVGEDYTLQ QPEDIRGRVAFGALPWL MHDQ PFVQGLTACAEIAACGPFDKD RIEGGIVVRMAKEGETLVLLDG TEAKLNADTLVIADHNKALAM GGIFGGEHSGVND ETQNV LLEC AFFSPLSITGRARRHGLHTDAS
16015	46383	A	16106	390	636	KFLSFRPDRVCVACAEEARAGL CLRQCITGHPEACLAIPVLVCVE CWGGTDADQPVA VFPSRFSQV SPDRGT*QWLCWKFL
16016	46384	B	16107	1	520	
16017	46385	A	16108	142	243	
16018	46386	B	16109	275	919	
16019	46387	A	16110	1	693	
16020	46388	A	16111	522	714	

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16021	46389	A	16112	1	900	STCSSRSHLHLIQASPILPNYVA TAVAARIHADVQGISDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLY VMTPHAFAGQTVTIYLPGEQQT LSVAPLKNVVQLVTQQHLRDR LW WPGAFLTDFAAKVKALKD/ YPNHVMAQRASGEAEADDV AATIKSVRQQLNLNITGRLPV KLDPDFVRVDENSNPPLVGDYT LYTVQRPGTEQGSFKVKRARA RVRQTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAAR
16022	46390	A	16113	150	649	NALLGTCPGTARFPGTGSAPTL HPDASRSGRGAACPRSAQWS PRPWQSVAGLAWLGAHWGSR STSRTAETASKRGHPRSPAAQ LPPGPRPPRAPQLQRALQSVHP LSPRPAPLA/EPKLTAACWAEA VKITTVRYSDDSCSRLTDLGKP VQSMLLKDIRKVYNWQ
16023	46391	A	16114	153	740	THQLFLPPHHQEISQTTWLSAA WPRHTCAHLSPLQPPVPFSRP HVPLPGPSKTWSDGPRLQSLPG/ RPSERTPRR/CRSASGQPPHLGG EERLCLAAPSGRICHCEGDDES PLITPCHCTGSLHFVHQACLQQ WIKSSDTRCCCELCKYEFIMETK LKPLRKWEKLQMTSSERRKIM CFSDIPRHCRPMCGLVLVCAH
16024	46392	A	16115	1	1194	
16025	46393	A	16116	323	642	TGYARQKPVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGG/VGEM ANGNGERNHKQIGDTVLTTPQ HYRKIYQPIAARSCIRCVCGS

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16026	46394	A	16117	1	1782	MAGIRSTLIKEKNMITNYEATV VTDDIVHEVNLEGKRIGYVIK TENKETPFTVVDIDGPGSNVKT LDEGLSLLLSLVSIIVIMKLFYQ YEQRFGMRSTSLLNVIGSNTIAI YTTHRILVEIFSLTLLAQMNAA RWSPQVELTLLLVYPFVSLFICT VAGLLNLTTVMPEQYRYTLPV KAGEQRLLGELTGAPCATLVA EIAERHAGPVVLIAPDMQNALR LHDEISKFTDQMVMNLADWET LPYDSFSLHQDNYLLVAFQPFY QLTDDAAVGVLIVPVNTLMQR VCPHSFLHGHALVMKKGQRLS RDALRTQLDSAGYRHVDQVME HGEYATRGALLDLFPMGSELPY RLAIGVNVAQAEVLNLESGAK QVLQETFGYQQFRPGQEEIIDT VLSGRDCLVVMPTGGGKSLCY QIPALLNGLTVVVSPLISLMKD QVDQLQANGVAAACLNSTQTR EQQLEVMTTRPRIGDGTGALRK RVAQLAFKNQPMVMGNWAQS ILHGGVIASALDVAAGLVCVGS TLTRHETISEDELQRQYRGWGP LIFALIICAQAGASVLLLLVACC VQAIKSPSPALNYTMKNSFILPV
16027	46395	A	16118	380	1431	TALLIRDMPPYVEAYPNENLTT VMPEQYRYTLPVKAGEQRLLG ELTGAACATLVAEIAERHAGPV VLIAPDMQNALRLHDEISQFTD QMVMNLADWETLPYDSFSPH QDISSRLSTLYQLPTIQGGVLI VPVNTLMQRVCPHSFLHGHAL VMKKGQRLSRDALRTQLDRAR YRHVDQPAHAGGKVLEMIVVG IATWLGFLFGLNYSLLAVLV GFSVLIPYIGAFVVTIPVVGVAL FQFGAGTEFWSCFAVYLIIQAL DGNLLVPVLFSEAVNLHPLHHR EQIGGNKMADRQCRKIVCATV RQLPEGGRGEMANGNERNHK QIGDTV LKATGSKQGDGQNHG
16028	46396	A	16119	1	940	

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16029	46397	A	16120	114	1380	NRVHCRRCSSGGDTGVSHLKGI NVKYRYELTDSVGVMASLGFA ASKKSSTVMTGEDTFHYESLRG RYVSVMAGPVLQISKQVSAYA MAGVAHSRWSGSTMDYRKTEI TPGYMKETTTARDESAMRHTS VAWSAGIQINPAASVVVDIAYE GSGSGDWRTDGFIVGISGV LKD GTGKPVQNCTIQLKARRNSTTV VVNTVGSENPDEAGRYSMDVE YGQYSVILQVDGFPPSHAGTIT VYEDSQPGTLNDFLCAMTEDD ARPEVLRRLMLMVEEVARNAS VVAQSTADAKKSAGDASASAA QVAALVTDATDSARAASTSAG QAASSAQEASSGAEAAASAKAT EAEKSAAAESSKNAAATSAG AAKTSETNAAASQQAATSAST AATKASEAATSARDAVASKEA AKSSETNASSADYAAS
16030	46398	A	16121	165	299	GILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW
16031	46399	A	16122	1	388	MGSKSWVTQKGPAKAQSSQV GRVKQATATDTGRTRDSHMER PKCSKGYLCLPYMALQQHHLL SDVTVRGFVAGATNILFRQQKH LSDAIVEVRLCGSDLVLYGTST PKNLIWVMVHVVGHRPDRR*C CCNA/SVRQTQISLRAFGSFHM AVSGSSSVSGCSLFHSAHLTAL CFSWPLLCYPTLGPH
16032	46400	A	16123	130	414	
16033	46401	A	16124	1	387	
16034	46402	C	16125	1	1611	
16035	46403	A	16126	318	401	
16036	46404	A	16127	519	658	YPGSQLLASKGTKLDGE*V*RS RLQKVGNNKLLQAKGACSNPT QES

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16037	46405	A	16128	1	1837	FRPRQLVAAKPSVFADVQSMES VGTGGGAEAEAGGVRSRGLCPT RMLPGLAAAAAHRCSSWSSLCR LRLRCRAAACNPSDRQEWQNL VTFGSFASNVVPCTHPYIGTLSQ EKLYSTNVHKEGQGSHTLREE KVPSFVTAEGVGAKLISPLKQE PLQVRVKAVLKKREYGSKYTQ NNFITGVRAINEFCLKSSDLEQL RKIRRRSPHQDTESFTVYLRSD VDAKSLEVWGSPEALAREKKL RKDAEIEYRERLFRNQKILREY RDFLGNTKPRSRTASVFFKGGP KVVMVAICINGLNCFFKFLAWI YTGSASMFSEAIHSLSDTCNQG LLALGISKSVQTPDPSHPYGFSN MRYISSLISGVGIFMMGAGLSW YHGV MGLLHPQPIESLLWAYCI LAGSLVSEGATLLVAVNELRRN ARAKGMSFYKYVMESRDPSTN VILLEDAAVLGVIIAATCMGL TSITGNPLYDSLGLSGVGTLLG MVSAFLIYTNTTEALLGRSIQPEQ VQRLTELENDPSVRAIHVDVKA TDLGLGKVRFKAEVDFDGRVV TRSYLEKQDFDQMLQEIQEVKT PEELETFMLKHGENIIDTLGAEV DRLEKELKKRNPEVRHVDLEIL
16038	46406	B	16129	1	1065	
16039	46407	A	16130	1248	1658	PLALPEFISKSWKERLTDTTVLF LKARRQSLCLQIGGDPLES/ILQ AFCVLSVAKESQLYTYLHAIMR TLKSSIARGARTFQSTSDGTVKS RPSKIIFLPRLHDFRFRSALRHL DPKKLDLGDGSRSAHRPDRRFF
16040	46408	B	16131	969	1026	
16041	46409	A	16132	339	432	RYMVLSEFRSMQTGITKWKERI L*NCRKRE
16042	46410	A	16133	3	443	HTWNSDRTMYLQRRHIFKNC FWLQAGYSLGAPSWRSLVTWV QIIFSDFYRKTLCSNSPLF*SLC QRQSTLLGTLLIFCSYASSPEAI NSAAPRVRSRTPDKARSPRG VGGAEGNGSRDTEPKGGRPLA TPSQGERLMAGTVTK
16043	46411	B	16134	34	1426	
16044	46412	C	16135	62	217	

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16045	46413	A	16136	1	609	MIPVSEKSKIGQLNMLKGKKT KGKKVALVPAAVKKQEAKKV VNLLFEKRPKNVGIG/QDIQPKR DLH\RFVKWPRYIRLQQQTAIL D/QFIQALDQQTATQLLKLAKH YRPETKQKNKQRLA\RAEKKA ASKGDIPNKRPPVLQAGVKTVT NLVENKKAQLVVIAHDVDPVE LVVFLPVLHCKMGVPYCIKKGK ARLGHLVHRKT
16046	46414	A	16137	1	824	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQAL\DRQTATQLLKLAKHYR PETKQEKQRL\LARA\KKA WPKGTFPTKRPPV\LRAGVNTV TTLVENKKAQLVVIAHDVDP LVVFLPAL\CRKMGVPYCIKKGK ASLGRIVHRKTCTTVAFTQVNS EDKG\ALAKLVEAIRSNYNARY DEIRRHWWGGNVLGPKSVARIA KLEKAKAKDLATKLG
16047	46415	A	16138	1	799	
16048	46416	A	16139	1	344	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16049	46417	B	16140	1	1323	
16050	46418	A	16141	1	1356	
16051	46419	A	16142	1	1524	

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16052	46420	A	16143	173	2310	QQWASRTRRWRS LITTL CVDA RSQHDYIALSRLFHTV MLFDVP VMTRLMESEARRFIALVDEFYE RHKLVVSAEVPLYEIQGDRL KFEFQRCL SRLQEMQSEEYLKR EHLAAKPETVKRDWYVVDAT GKTLGRLATELARRLRGKHKA EYTPHVD TG DYIIVLNADKVAV TGNKRTDKVYYHHTGHIGGIK QATFEEMIARRPERVIDNRRGS LRQAGYAIHDGGNNSMAKNTS CGVQLRIRGKVQGVGRFPFVW QLAQQLNLHGDVCNDGDGVE VRLREDPETFLVQLYQHCPPLA RIDSVREPFISQLPTEFTIRQS TGGTMNTQIVPDAATCPACLA MNTPGERRYRYPFINCTHCGPR FTIIRAMPYDRPFTVMAAFPLCP ACDKEYRDPLDRRFHAQPVAC PECGPHLEWVSHGEHAEQEAA LQAAIAQLKMGKIVAIGIGGF HLACDARN SNAVATLRARKHR PAKPLAVMLPVADGLPDAARQ LLTPA\APIVLV DKKYVPELC DDIAPDLNEVGVMPLPANPLQH LLLQELQCPLVMTSGNLSGKPP AISNEQALADLQGIADGFLIHN RDIVQRMDDSVVRESGEMLR SRGYVPDALALPPGFKNVPPVL CLGADLKNTFCLVRGEQAVLS QHLGELSDDGVQM QWGQRLC RMGTQVLPPTF NIEKKVQSARY
16053	46421	C	16144	1	184	
16054	46422	A	16145	85	416	
16055	46423	A	16146	96	570	

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16056	46424	A	16147	2	1690	CCCCPCCCPCWGRVSGSVAGG PRQGLGLPLSLCISPGSLNKDPS YSLQVQRQVPVP/EGLCVIVSC NLSYPRDGWDESTAAYGYWFK GWTSPKGTGAPVATNNQSREVE MSTRDRFQLTGDPGKGSCSLVI RDAQREDEAWYFFRVERGSPL TQKPDVYIPETLEPGQPVTVICV FNWAFKKCPAPSF SWTGAALSP RRTRPSTSHFSVLSFTSPQDHD TDLTCHVDFSRKGVSAQRTVR LRVASLELQGNVIYLEVQKGQF LRLCAADSQPPATLSWVLQD RVLSSHPWGPRTLGLELRGVR AGDSGRYTCRAENRLGSQQQA LDLSVQYPPENLRVMVSQANR TVLENLGNGTSLPVLEGQSLRL VCVTHSSPPARLSWTRWGQTV GPSQPSDPGVLELPPIQMEHEGE FTCHAQHPLGSQHVSLSLVH/S PSTAAGPLLLLGG*GSALQLLL/ SRPARPPLCAGGLGRSCWRGTA VRAPSRSPPAQPGPGTAP*AS MEGSAPASGS AVRPGTSTGPRV ALSSSCYQGSWSMGEDLA WGL PWELASLPCSLSVPALSSSG
16057	46425	A	16148	3	1578	VTQLLCTSNRRALFALFPGR RFRPVATNHQSREVE MSTRGRF QLTGDPKAGNCSLVIRDAQMQ DESQYFFRVERGSYVRYNFMN DGFFLKVTGMEWGGNPCLSH WGGTLGTAYGLSREGSQGPLQ HKN/HPTTVSVPALTQKPDVYIP ETLEPGQPVTVICVFNWAFEEC PPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPQDHNTDLTCHV DFSRKGVSVQRTVRLRVAYAP RDLVISIRDNTPALEPQPQGNV PYLASPK\GQFLRLCAADSQPP ATLSWVLQNRVLSHPWGP RP LGLELPGVKAGDSGRYTCRAE NRLGSQQRALDLSVQNPPENLR VMVSQANRTVLENLGNGTSLP VLEGQSLCLVCVTHRQPPSQAE LDPEGTGSEPLPALRPRGSWSW LVGSSGARRRVHLPRSAPTGAP RRTLLPSPCTTPRSCWAPPAPGR LRVCTAAAPPRPARPPLCAGGL GRSCWRGTAAQGLLRGSPPAQ PGPWAQTASPEPSMEGLNSGPQ

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16058	46426	A	16149	90	1029	MLLPLLLSSLLGGSQAMDGRF WIRVQESVMVPEGLCISVPCSFS YPRQDWTGSTPAYGYWFKAVT ETTKGAS\ VAPNPP\ SREVEMST RGRFQLTGDPKAGNCSLVIRDV QMQDESQYFFRVERGSYVRYN FMNDRVL\ LKV TALTQKPDVYI PETLEPGQPVTVICVFNWAFEE CPPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPQDHNTDLTCHV DFSRKGVSAQRTVRLRVAYAPP ETFGISIFTVTNTPDPENLRVM VSQANRTVLENLNGTSLPVL GQSLCLVCVTHSSPPARLSWTQ RGQVLSP
16059	46427	A	16150	270	1001	CCCTVYRAFIRKRLKRSSDSVY RRKNPSASYDRDAEASLAAVK SGEVDLHQLASTWAKAYAETT LEHARPEEPSWDEDFADVHD LIHSPASETLLNLEHNYFVSISEL IGERDVELKKLRERQGIEMEKV MQELGKSLTDQDVNSLAAQHF ESQQDLENKWSNELKQSTAIQK QEYQEWVIKLHQLKPNPNSS LSEEIKVQPSQFRESVEAIGRIYE EQRKLEESFTIHL* AQLKTMHN
16060	46428	A	16151	60	648	LAMSLSHLYRDGEGRIDDDDD ERENFEITDWDLQNEFNPNRQR HWQTKEEKGS LQRKEFFD L V GLCFCA YRARDYSAPVNFISAG LKKGAAEEAELEDSGFLRFFFI LFFH*LSFDFSLQGGNFKPSQK GFAGGTSFMDFGSWERHTKG I*FTYMNCCDRKTLFFFC*NSSG IINPIEAKQRKGKGA VGAYG
16061	46429	A	16152	237	450	LAMSLSHLYRDGEGRIDDDDD E/REENFEITDWDLQNEFNPNR QRH\WQ\TKEESTYGVWAERDS DDERPSFGG
16062	46430	A	16153	12	85	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEIWCEEDERKMARE FLAEFMSTYVMMNIHMIVEKN T*SPFCPPWARATVSGPPVAPKW SPGP
16063	46431	A	16154	49	481	
16064	46432	A	16155	20	248	
16065	46433	A	16156	493	728	VSFLSMSSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMAREF LAEFMSTYVMMVSGRAARSG WALPGPSMTSPF

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16066	46434	A	16157	136	306	ASSSREGLTKFAKFTKFTKIHQI *ITLTSYSIKSLEKVCADLIRGTK EKNLKVKGPV
16067	46435	A	16158	563	1216	MMFWPELQPRVCWMGLSWVN HQNGRRRRKNQKHH*QKVPLL IMASK*KLLEFLNRETKASANL SETVTKPPLPQKNTAQVGASSQ TRKPNKLAPHPAVPAFVKNTCP SRPRERQTHFLRPEDRMVAL KPIKIVLPPVFMPPFSSPQGIRSR MPTQHLYCRWVAPKALVPTCL PTHLSLRKEEKPKRMDTPFLPY SRPPSGEWLLIVLWFFNRSQRS
16068	46436	A	16159	1	143	
16069	46437	A	16160	40	230	KQAAQPAVATLSGPLPHCGSFV LSLFAINLVAASHLGPCHLYEL* HSPRRSTASLREGPRLHS
16070	46438	C	16161	233	319	
16071	46439	A	16162	290	472	EFLDTFCYIPKVVDQ*D*THKQ QHNVAIIPHVSSAQMSTFC*RT MPTISDDPWHMAMRAV
16072	46440	A	16163	3	553	
16073	46441	C	16164	270	608	
16074	46442	A	16165	2598	2943	HSPRGSAAFLKSVRPRTHQFR TQEDRLSPGIQDQPGQPSNTPSL QKL*N*LGVMGRICSPSYLS*P WREDHLSPPG*GCSEP*LHHCT PAGVTKSDRVSKNK*INKNKIN NDNQ
16075	46443	A	16166	2	58	
16076	46444	A	16167	218	342	
16077	46445	A	16168	734	872	
16078	46446	A	16169	1233	1706	CLVFWLLYYPGQLPFHLLPHS LGSGQQSSEESAATPSLAEGRR EAAFRCPAGLARQAWRPHAR LPGPAAPLAAPSLAPLPTGRSG RWLPMLCAASC*SPSPAMSVYP QRRLGQGGAEDEGGPVSRGC RAPGPQRPLAAPGEQTAARTQ AICLIW
16079	46447	A	16170	598	1159	CRQTGVKIYDVWFFWLLYYPG LQLPFHLLPHSLGSGQQSSEESA ATPSLAEGRRREAAFRCPAGLA RQAWRPHARLPGPAAPLAAPSL APLPTGRSGRWLPMLCAASC*S PSPAMSVYPQRRLGQGGAEDE EGGSVSRGCRAPGPQRPLAAPG EQTAARTQASVYLLPHSPPLL SALHIHLLPPS

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16080	46448	A	16171	834	1185	RSLFRHHRPSAAFPRTPCSDCPR CSAGTMEDCWLVLGSPELR*KS LHERPFHWLPSPSRARCCLPRSE TPAGVPVPPRPGRRARRRPRGTS RPPPASSRGRGALGSLPASEPLP ARAT
16081	46449	A	16172	78	478	VVKNSLIFLVNQVLNSRDFHVF FKTT*NCPAQHAHTAALYQGLGP ACSQRASHWMSSSSKRSSKSLK KSA*TAFSLAAKSIKSPGAASRL GNGKARLCQVRFPKEQVISALQ GHYPHKRRWVRGNRLKLEST F
16082	46450	C	16173	1323	1656	
16083	46451	A	16174	77	231	RSCMTLMWPRSTP*FGLMERR RHMFDWLLITMLWMLPTKLG SKLSPAA*F*SSCLIL
16084	46452	A	16175	1	255	STSKGEKPAIRAMAHFLEPHPIN FLGARARKADLSPT*YHFFKHL DNFLQGKCFHNQQDAENAFQQ FFKSQSTNIFYAGSSSFVTEV
16085	46453	A	16176	690	1020	SPVLQRAFKNGPGTANERTVQ WWFKKLCKGDESLEDEEHSG* PSEIYNNQLRAIFKADPLTITRE EVFPHPLYSPDLSPTSYPHFQHL DNFLQGKCFHYQQDAEHAFAQE
16086	46454	A	16177	1	383	MHRSCGSDAYALLGERSVSLR RCAVRHAGGIRSANADISNDKA GEKPARRKTKGSCPTLIGAGLV QSLSPIQSAADAGELGSNGILPD VESLRIPVQYLANLLTAGDTKP VLRALKRMLAMRHYKRAETV DGKVDTRALEEVLTEAQAQE MYRYLAIANYEDRFVVPSSHRE LAREAFPEKNGCGFTFGDGCH GSDTKFNLFNSRRIDAID*PCPD *RWTGTLGLPASGLFTRFIVTY VSIRTSDTSSMPHSTPSQA\TERS PNNA*ASLQTC

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16087	46455	A	16178	740	1977	SASASRSLEHITVTPSTGILTCFP STTPFGLAL/GGTLGLPASGLFT RFIVTKSSIFSVTPLVQPKPCN GYSPPPPPVPHRREFQRRVIAEK IFCQHHRAKLNRLERQYLTVN FRAIAQRVNIGITGLQITIDANA AINRQPGASCQGRFPGAVRCGG NYRIHFDIALAVQRWPECQNP FPAPVTEISTADERPSPLTGCLQ RLVTFGSVIFGIINMIMRLAPIGR FGAMFTIGKYGVGTLVQLGQ LIICFYITCILFVVLVLGSIKAT GFSIFKFIYIREELLIVLGTSSSE SALRRMLDKMEKLGCRKSVVG LVIPTGYSFNLDGTSIYLTMAA VFIAQATNSQMDIVHPITLLIVL LLSSKGAAGVTGSGFSVLAATL SAGGPIAGSGSGADPRYSTALC
16088	46456	A	16179	757	1037	FLDPSPEPNVTVPSTGILTCFPS TTPFGLALGVDSPCPD*RWGTG LGLPASGLFTRFIVTYGVTPALD TGLM*LRSCGPPRSML*HRTQQ KC
16089	46457	C	16180	1	313	
16090	46458	A	16181	178	290	LLLGLASEN*HCPIASEAP*TTT DTELWVTLTVEGKS
16091	46459	A	16182	1	251	
16092	46460	C	16183	129	1136	
16093	46461	C	16184	117	364	
16094	46462	A	16185	636	748	LLLGLAAED*RCPIASEAPQTIT DTELWVTLTVEGKS
16095	46463	A	16186	37	444	DPQVGKLLQHCPARIKMTVTF NNHRKPQLSKFHQLYSED TQQ QIIRETFHLVFKRDENVCKFLGT IWSLTTGKLNRGQAPLFGIFHT VELHLEIRSSCQGIVHF*LTCFSS CPCSGPFVNSPFYLPLESGHKS
16096	46464	A	16187	179	422	LQLGPKEKQSRVLGSFFQVPSC GKMGCSSGSRHIGFPPAPQLSG GPLDPRQGSGISEMK*TE*GGY PKGSPQHYSRKHQGS
16097	46465	A	16188	1064	1374	KEQCLQALSSVKNREKRPSSFH PICWSAVSFSVGREGDMWPLAP FPDSENVAGAGALLRLAALPG LSWALRPPPPAPVRSWATSGW* GGQGREPGRGIPPRW

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16098	46466	A	16189	44	515	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADEGFWDSCVCTFR NSAEAFKCSICD\VRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSDI LKDPPS\EANSIQSANATTKTSE TNHTSR
16099	46467	A	16190	382	795	DSGRSWKRLSPPRPMCDTWA LGSYPRLCFAVSPPFSCSLPLPSL FPHSPLLGRPKRQAKPAADEGF WDSCVCTFRNSAEAFKCSICDV RKGTSTRYLKICVTWVVVVI*Q VFIEHTAICALGVQWYKDRPGP CSYGA
16100	46468	A	16191	2	343	
16101	46469	A	16192	472	625	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSQWKFP
16102	46470	A	16193	343	693	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSTQIPLKAFTNPCHTSFTLCKH MVIQAHQEKQLIQILYLGDLL ET*HFQAFWQALDENMTLLESI TGFEFG
16103	46471	A	16194	340	534	TAIMNDMVTI*TRKFMTNQRLQ RKQMVIDVLHPGKATVPYLILI EQLRFARHCAWYGGDSDETS
16104	46472	A	16195	80	552	PIPHLEKFHAPTRRTFRGNQM\V IDVLSPPGKADQCP*AQEIPGKT *PKMYQDPHPDVI\FVFWIPELH FGSRGKTKLAFGNDFMTSLGFI AKEKWNPKHRTLQGHGPGME/ ERKKTSKGKPTERERQGTGLEG KFQGGGLAKGPFFGAWAKRRNE VSSS
16105	46473	A	16196	248	474	YPETPESPTQLSSGQPHREQPPE MPESPTQPSSGQSCQEQPPETPE LPM*PCLAQPSQKHKMG*QNN KHENKM
16106	46474	A	16197	223	669	PRPSLPACSPWRIVDDCGSLKS WKRVCQWLQPCNALPSCLG PLRCEFSGFPRN*LGLGSTTGSF AVWGGFLSTIDCGLVRRPGPSP FHPVLPALTSVSLPPTPPGGPLA MVGSAAMGGWSGEWEILHLA SSTHPYPSLPSPAPPFLE

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16107	46475	A	16202	188	484	HFGRVEVGRSQGQEFQTRLAN KAKHHLYSFMNESQISPIGC*P M/PPKLIRKVHREKNCAGRNL T\R\QMSGFKTGPPGPPARPSSPTLP PPPPLPRLPRRP
16108	46476	A	16203	36	409	
16109	46477	A	16204	651	893	NTSVKNNFSFMNESQISPIGC*P MAPKLIRKVHREKNCAGRNL T\RAEKRLQTPGLPVPPARPSSPSS PPTPPLPAATPGGR
16110	46478	B	16205	13	441	
16111	46479	A	16206	3	205	NSSNSFSIQFCSFAGEELCSFGG EEAFWFLEFSAFLRCFFLIFRDL STFGL*CAPLEEKRHSGFWNFQ PFCAAFSSSSGIYLPVFDAGDL QMGFLCGCPFC
16112	46480	A	16207	23	841	EKAKEFRRAEEKKEVPAVPET LKKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKH\YHK EYRQMYRT\EIRMA\RMARKA\ GNF\YVPA\EPKLAFVIRIQRVS MGVSPKGSERCCKLLRPVVKIF NGNLL*KLNGFRLTMLRIVE PYIGMGGTPIKSVNELIYKR\G YGKIH\RKRIA\LTDYALIARSLG KYGIVCMEELNHEIYTVGKRFK EANNFLWPFKLSSP\QGG\MKK KTTHFVEGGDAGNREDQINRL HRRNELTRLTWIFF
16113	46481	A	16208	1137	1200	PPSAPAPG*LRPPALSSGSP*PPS APAPG*HAPPPSAGTPPP

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16114	46482	A	16209	1	1480	MNECRGVEITTVCSSEDWIQRHL PGAVVPLKGEGNVGVATEDHY QEDSFGLRGTGKPLKLEKSR PGAVTHTSPSDGLTQYVPDSL AMPAAVVIWVIRPGCGVQQQ IGFLRHSNIDDIRPRTIIRAVAPV KLHGIRIKMASFTSATRLTDEQ VITAPADSGIVIPRFSNWWAG GKTHLTHKDSHKLKVGWKK AFHANGHQKQAGVAILTSDKT NFKATAVKKDEGHYIMVKGL DQQENITILNIYAPNTGAPKFM KQLLIDVRNEIDSNTHIAGDFNT PLTALDRSSIQKVNKETMDLNY TLEQMDLKDIYRTLHPTTAEYT IYSTVHGTFSKIDYMTGHKTS L NKFKKSEIISSSLSDHSGIKLEID SKRNHQNHANTWKLNNLFLNN RWVNNEIKMEIQLFELNNND TTYQNLWDTAKVVLRGKFIAL NAYIKKTERAKKIYSHTSGI*K QEQTCPKPSRRKEIKIRAELEI TTKKTIQKK
16115	46483	A	16210	32	398	ASERLGGPGSPG*/PVNPRTDGS GAAWLSQRAQCTQSDPRV*EV PEHLSPSTPSQEYRGLPAL/PHTS RPSHCLPACPLPSRTQPWVPVK PGPTACRGFLQHSPTPGSPSP*S FQGSSWWDTDL
16116	46484	A	16211	2	681	AEPWDEGGDGVPCRPVSSGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQQQIP GPRLVLQFVQQAGVCGPGGNA VYSTPRDSASLVSGRTSMLFLR KFGKTWRKGKLHQRGPASP V LGRECNEWG*VIGRHPAQSS/SGP ACAKDAAELGAAMPGLVSGPL GAALQPRGAGVQLGAATGPGS CSK/RGSPKADAR/PRHSQEPGQ VPPHAPQGPGLS

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16117	46485	A	16212	102	1005	VQWSARPDATPLSTEPSLADYP EAQSHIPRRGPRRPEKQGRGGK PPRALGRERAGGSGRGPPASPD PLSRPCSQAPPPGASAGA*DAP ACRREAGSDGVPCRVPSGGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQQQIP GPRLVLQFVQQAGVCGPGGTD GSGAAWLSQRAQCTQSDPRV* EVPEHLPQVDTHKGELYQ*PGG RDGPGWEEPPQCGMGVSEAHG GAGGPGEAGKGRLLQRKFGKT WRKGLHLQRGPPASPVLRPR PE*VLLRCD*EG*PPSAGQLL
16118	46486	A	16213	378	494	GTACLQIPQTQGV*QRGFLAEY IQWQLRMRSISIPVRTG
16119	46487	A	16214	18	894	SVGSLCCLQETPGLRAFGVPWR SAQRRWPRRSAASLLSLVLPGR AHSRPTLAPGPLEAQPPPGG SALAQHSRTAPAGTSAACLWP VSEQGAAPMCQVTRPPGSQAP CSQPSAHAHKHLTTGSSSPA SALPRA*TGSRWETKSSSERVSSF SA*GTACLQIPQTLRRRTG*RQ VGRRLPGSGGFDGCSIFS*S*PV TYSLRVSATSSNEATQLGTT*S NSIIFEFCSAQSTAVRCRLFST*T DAPWSRSSSTTKTCFSITASCSA VLPLLEALMEAPCPLACSSA S
16120	46488	A	16215	340	582	
16121	46489	B	16216	93	711	
16122	46490	A	16217	1378	2081	LSRKKPNWPSSMPWYQFSLIWL MSVKTSPSWKPSSPWFSGWKS YSTLQLGWSRGGMLLLGVQM DLLEDWKGDEAAILGTVVQ GK PPLDCSGSPRSK\APRTWAYTPA WGVRLPASCA*ASLPAPGSA WPASGRSAAPP/AARS*LICSM SVSRRLCMLVSATSLESSNFSSA WRSSSGILPCRFSMSRESFTSA RCFMDSPASSASLKLDLPSF WWRIHSLRSPSDCG
16123	46491	A	16218	191	288	
16124	46492	A	16219	67	209	
16125	46493	A	16220	96	341	
16126	46494	B	16221	1	1185	

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16127	46495	A	16222	192	703	AMPSCTRAGLAFVCHVRRRCGLSCRGVIPASSQCLFPAPMGTTATLRMENVDVKEEWQD*DLPRPLPEETGVELLGSPVEDTSSTNTLNFNGAHRKRKTLVAPEINISLDHSEGSLLFDDFLDLDLDINVDDIETPDETDLSLEFLGNGNEL EWEDDTPVATAKNMP
16128	46496	A	16223	8084	8251	TAGDERHGPSRVRMFRIKGRRLGWMGPLGRGKR*VTRGMWPGKGPAYPGSSASSF
16129	46497	A	16224	645	1317	WGASRLREPPSPRTLHSPRPGP ASAPPLRPLPQNRTSPSAASTT APPQPSEASRLPA*KAKPKPHPP SAPRRGGSPPRHSAPACGRRR PRSVGGAAPYAAERRNSAPQGP PQLRRTAEGGKRPSNPRQRSH PRQRGDSLP*LGPWSRDRRAGR DGRDGSAGGTRRSPSPRYASPE PLGPAAPASPAGASWTGGPGRR ADDSWRASVFGAQSSACFPRA RVL
16130	46498	B	16225	72	378	
16131	46499	A	16226	151	372	GGQHWAKAWRQTLGPEMPER TGACGCGSL*PFTTPPPAICVD GTFHKYVFTPDGNCNREAFDV YLDICDDDDF
16132	46500	A	16227	182	1083	HPGPCPDHEQVGSMLVEDPV SPGLPLTLNLGPDNPPTCPAVLI WDDAREGKD*EG*SSLGIPPPP HGHPVLC DTHRIVIVLKNRQLC PF*DAASSSAHPTPHLHTLGL CELPCGLLAPSLHTTPTSDSLL PQDLASTKPGTSSAPFTINAHQS DIACVSLNQPGTVVASASQKGT LIRRVCMVGW*PHTT*HVGITA DLSSINFSDSSFLFPTLPCPCP PAHLPYLGLASAAACRLARVGK VGPMIGQYVDSQWSLASFTEM PERTGACGCGSL*PFTTPPPPAI CVDGTFHKYVF
16133	46501	A	16228	202	517	GVHCHGFSAGQAAGOEPTSVH ETLLPHQLQDOSALRGGVQNR QRHQA AEGPGERAGAAVS VGL GEPQCH*VGAGRAARGPPILEV PAGGADAAAECPAGPHGCCG

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16134	46502	A	16229	141	633	WENARPEPSQGDRLAASVVSPPR LPPRKGQGGGLGYFGRGAGHAH GTAGQGASESETLLPHQLQDQC ALRGGVQNRQRHQAAEGPGER AGAAVS VGLGEPQCH*VGAGR AARGPPILEVPAGGGDAAAEC AGPHGQNARGQQSGISQLRHE REFLLRPPFPQAPQL
16135	46503	A	16230	65	466	VVFAEAAEASLMTSGVGGGAA QSPRSRRGGWWPLGEMPYANQ PTVRITELTDENVKFIIENTDLA* GYRGKRLAALGRGRPKPGPRG RGRGCSGWGGGDVLPPELPPCT RALALGACGAGPACRGCSAFTP LGF
16136	46504	A	16231	42	491	SGGKEAQQQSGTDQTVVVLNS PTYYSNDIPYTFHQDNNFLYL CGFQEPDSILVLQSLPGKQLPSH KAILFVPRRDPSSRELWDGPRSG TDGAIALTGVD EAYTLEEFQHL LPKMKGNKWEQKSHYKPDWD *NLSCLFRQVLN FVIVAPP
16137	46505	A	16232	531	976	NQSIVRVNVDNLSIPVIAAELG VRKPSEKGMQKKKTKDLGFR AGKESKTEWRK*GLQDMASQ MFASPLK*PVTA AFHDSSMPSS LLQIFMEQLFLEARLQLDSKSE ARRNQCD SMLLRNQQLCSTCQ EMKMVQPRTMKIPDDPKAS
16138	46506	A	16233	2	419	SFLLSSSYTRTKSILRWPSLKKR ESGFPLNSSNSGVRKSC*LSSDP KSGTIVCPRFSNTISPSSSSSSSI CSKTFLAPSFCLPQKAAPNLAR SWGLPGSRTARLSQGPDRGPRG VCRLGSGAAEPSQRRGKPSRDE IV
16139	46507	A	16234	27	792	INSIRILSTCKMGHPRFAPQAPG PLRTSEKGPVLPWAGNSSSDH SSEPSVGFYFNEDSDGSHPV LQ MRACSPDPAQGARPSAEAPGQP *HSASRGSDPKVASEWRLPHAE ASPQLPGFSGAASPAPHKSCSSF SCLPQKAAPNLARSWGLPGSRT ARLSQGPDRGPRGVCRLGSGA AEPSQRRGKPSRGTHRPEPRAG GRLSPAERSPETEHAQCGRRG LRND*TSPVLRGAQKEVGRRD CRGSSAILRAGEL

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16140	46508	A	16235	343	969	YDKTRLFNTVPLPPPHKKIHKII QDIKGEILRAFPLRTGTHRCPL SPLLFNILLEVLARAIRQEKEIKS IQIGKEEVKLSLFADDIIIYLESP KYSSRKLQELIKEFSKVSRYEIN VHKSVALLYTNSNQAENQIKKS TPFTIAAKNKIKYLGILYLTDAK DGYKENYKTLMEIIDDKNKQ KYIP*SWKGRINIVKTTILSTAIY
16141	46509	A	16236	15	403	ICESRRGRVCSALVRRYVGEFG GKAGSICMPQAPDKSSRWTLI RPPRFPPS\PSCSPGKEAPGGSEL /SPLPHAWPSDPVSPLGDRVTA NPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQ
16142	46510	A	16237	19	454	KGKSLCTSPKVCRGRLRKSRL PETKVTHICMPQAPDKTSRWTL LIRPPRFPPS\PSCSPGKEAPGG EL/SPLPHAWPSDPVSPLGDRVT ANPAEIR*EPGPQSAAPGFREQR RRGQMG*IWYLTPTPPGGQRPS SAASPRGFPLV
16143	46511	A	16238	276	898	MKGTAPWRCGSRGRVCSALV PKVCRGRLRKSRLPETKVTHIC MPQAPDKTSRWTLIRPPRFPPS SILQSWEGGTGWLRTLPLPHA WPSDPVSPLGDRVTANPAEIRIL GEDPESPEETLNLILRTPIPPKPR GNAKSH/PGHRSR*EPGPQS AAPGFREQRRRGQMG*IWYLT PTPPGGQRPSAASPRGFPTNN SSRLPAEPE
16144	46512	B	16239	177	284	
16145	46513	A	16240	253	416	CCPVLPGPWAAGHPGD*PDGP G**AQPHKECRGGFAPLQVTLG PKQPSGKRVNK
16146	46514	A	16241	1401	2246	NIYLLQVFDWCWGLQGILGVSN PSYSIRRCYTAGQSPRGLPDPGR F*G*EESTGEQADCP*GSHRRSR SAAGAADGGLDPGAHTITCGC LSHRGRLVPAQKSSAAL*APSG AKPAPTVAPVHDPARQG*GGQ ARGQGARQPHSHREGLCEC*A VTTL*EPHLRNSSAPA*ERGPQG IRVPEGQSGDQESSAEHHGGD PGGGKPRCGQHQEPLGAGWPS PAGVEPLLGLQKGS DGAP**E PQRGCVDEAQQSSPGAVPEAK AIAVQPPAPDVFAAVARCD

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16147	46515	A	16242	30	461	IPAETTC/EPAKHFCFTDGSSN GKASYSGSKGKVFQTPYISAQK VELVAVIEVLTAFDMPINVISDS SYMVHSTQLIENAQLRFHTDEQ LIIKTKKGGNRDYGTAQTQLNL ALLTFHFSSLPKGQMLPAAEQH LQKPAAKTQAE
16148	46516	A	16243	1	573	
16149	46517	A	16244	1	1689	
16150	46518	A	16245	1	1416	
16151	46519	A	16246	27	779	KNHFNWKDKFPRLRISFLMVA TVKPPEPTPLKRLTEKPIWIEKW PLSK*KLEALEKLVTQELENH APTFSPWNSPVFIKKKSGKWR MLTDLIAINSVIQPMGALQPPGL PSPAHPKNWPLIVTDLKDCFFTI TLAKQDCEWFTFIIPAVNNLQP AKHFCFTDGSSNGKASYSGSK VKVFQTPYTSALTAEVAVIEV LTAFNMSINMISDSSYVVHSTQ LVENAQLQFQTDDTNDFIYPVA NSS
16152	46520	A	16247	2	394	
16153	46521	A	16248	63	1123	ELDVMGLPEERVRSRSGSRGQE EAGAGGRARSWSPPPEVRLVSL LRLNMSQKINDIWASISVAEFW GDIAKEFYWKTPCPGFLRYNF DVTGKIFIEWMKGATL*LCLF LVWGRSYTPNHWFLLVCLREG NEPGGQLDGREQVAARRVHGS YSVLLPAGIQKGDRVAILSNPFL HSLNPWGFLSLRLSSLP*GPM DIVPTRQHGAY*GLECLLLPKD MDMGGSCQVPFEPTLPL*AFL FSRGFPVRCCIVKHLALTSSH SLYTWTLQGQGTGVSCPHLELF TVLPCPSLQISWNQGIDLWWHE LMQEAGDECEPLSLHLVVSRG GHKTLTCSPPFPQGVVHTVGGY
16154	46522	A	16249	35	219	ALGVHFVLGPVGDGSRVDCG QQL\PTSSACTTSGLSISRRCSGI WRMNQKKQVRGSPKE

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16155	46523	A	16250	1934	3213	WPAPPSQVPSLDYGLALWFDA YVSVHGTQETSQCSPSSLTPPR LCGLRILQPYAERIPVVATAGIT INFTLRGYAWPNGALPASTVPC GFAACPGEF LCSVNGRQAPAGS SGFLPPVPSLCPHTVCRATFQCK EDSTCISLGRFPWGSETHLLCPA PIPSVPGVPCGTFTFQCEDRSCV KSLSASPLPLLLCPPHLLPSPD CGLQGPSSRIVGGAVSSEGEWP WQASLQVRGRHILGRGSFLPPH LTPPHTPPHPSMASTVLWTVF LGK VWQNSRWPGEV SFKVSRL LLHPYHEEDSHDYDVALQLD HPVVRSA A VRPVCLPARGRIEN RGSRLLRSHFCP*PRTGPISNAL QKVDVQLIPQDLCSEVYRSSPG KGGALTLLQSFLSPFQGDSSG PLVCKALSGRWFLAGLVSWGL
16156	46524	A	16251	511	853	CCWNMALIQTFQMSMEIPLCTT LS*TALHLASANGNSGVVKKLL DRRCQLNVLDNKKRTALTKAV QCQEDECALMLLEHGTDPNIPD EYGNTTLHYAIYNEDKLMKA LLLYGADIESKNKVEEEMKKH ESNNVGLLENLSNGVTAGNGD DGLIPQRKSRTPENQQFPDNESE EYHSHTFLPSRIYP
16157	46525	A	16252	1050	1350	CDPQMCCCCRPEAATPG*REAA SAGPWDSAPPSPARTSLPSAHSS DYPLPRSRSSSASAASRSPRPL STIARRLNPRRSGRSLPSGQPAG PSDPRGFCL

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16158	46526	A	16253	2	3486	SSQSGAAAGAFCGLCVDLELTA SCDLEADSEDRTEHLATLQLRP DFSGSRCPAPQKHLQTHRPHSK PWPIY*PT*RSYLAISPHSW*AP\ PPSRRRAPPAFHPHTQACPSTCY CHTLASRRGPSNGRYHRPGYPH PTAVQRDPPAGPRGCQSPC*HQ PPACRRPCGRHYR*HGQHDPPP WQ*HC*SRSPCHPPSQRDAVTW PFIHIPAED/SHTQPQKSP\PAFRP HTKTCPFTCYCHTFAGRRGPSD GRHHHLGYHHPSAVQWDPPAC *RGCWRPCQREPQTCPFCGR/P PPGTSLA*PPHPRVPLKEKLCQY DEFSEGLRHSALNRHQRVPTG EKSVKSLERGRGVRQNTHIRNH PRAPVGDMPYRCDVCGKGFRY KSVLLIHQGVHTGRRPYKCEEC GKAFGRSSNLLVHQRVHTGEK PYKCSECGKGFSSYSSVLQVHQR LHTGEKPYTCSECGKGFCAKSA LHKHQHIHPGEKPYSCGECGKG FSCSSHLSSHQKTHTERPYQC DKCGKGFSSHNSYLQAHQRVH MGQHLYKCNVCGKSFSYSSGL LMHQLHTGEKPYKCECGKSF GRSSDLHIHQRVHTGEKPYKCS ECGKGFRNSDLHSHQRVHTG ERPVCDDVCGKGFIYSSDLLIH QRVHTGEKPYKCAECGKGFSY SSGLLIHQRVHTGEKPYRCQEC GKGFRCTSSLHKHQRVHTGKK
16159	46527	A	16254	333	695	ISVFRSPGQSTSQHDAATWPFL HISGEGPTPSRRKAPPAFHPHTQ ACPSTCYCHTLASRRGPCNGRY HRPVYPHTAMQRDPPAGPRG CQSPCWHYTPACRHPGRHYR *HGQHDPPPWQ*HC*FGSPGQS TSQHDAVTWPFLHIPGERPTAS RRKAPPAFHPHTQACPSACYCH TLASRRGPSNGRYHRPGYPHT AVQRDPPAGPRGCQSPC*HEPP ACRHPGRHYR*HGQHDPPPW Q
16160	46528	A	16255	9	437	SCNMSLCRCNVCIRAAFKEGTP ALLVYSAILSFTPVSLAKSCSISI AIVSNILSWLDPFKRGVVSELSR LPSRVLL*L*LVHSLKETSFRS SFSSCRACFLRSSQ/STAGPCR HLCRPTSAGIGEQRRCRPESH EIVDRGI

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16161	46529	A	16256	619	1138	SCNMSLCRCNVCIRAAFKEGTP ALLVYSAILSFTPVS*DPEAFSP HLPSNCWSLPPSLSSNVSRDRG AEAMQAGKSPWCVFPP*EPGPT GCEPPRTLPPAPFKLCSL
16162	46530	A	16257	408	801	SQRRGVCRLVHGRHGQPGKG TSPHSSLWDWQPGPQPSGPPWP EGGASPGTPSLIPRS*SASCCFP WHPGCSC*GAPASQC*VALSPQ PWFPLPCLSVSPVGAQATGPK HVRTPPGSDSAPPQLQPQSRI
16163	46531	A	16258	1	199	
16164	46532	A	16259	665	1006	IGSPDGRNVIRERTVTNETQTEG EREKEEERESFHTGDVLKVGDL GPQGSSREFQLLSNLTVPNFIDI QFPK*VSAAC*DGPSHTHSSYIS SSLFIIRASQSSPGDFSISVRY
16165	46533	A	16260	247	404	
16166	46534	B	16261	258	934	
16167	46535	A	16262	519	924	NRTIQADLLYPDDAGNPLPARN TRQASASADPPGARAGERRRG AAGPSPGR*QQAPGPPPPGEGA GARPG*EGDAAGGATRFVGED ARLLRAGCHRGGRGEAEELQ ALRHPLQLQLL*EGAPHGELAL VAFHL
16168	46536	A	16263	121	214	
16169	46537	A	16264	139	272	
16170	46538	B	16265	1	1962	
16171	46539	A	16266	2373	2554	SATPWLPTGLAAPTGLAAPGT RSPPGQT*PERSPAASPKRPERP ALDFQPPRQPPPPPP
16172	46540	A	16267	919	1653	WNCFVCSADTMAQIMAEQEVE NLSGLSTNPEKDIFVRENGTT RRPLQPPPRGRAS*GGAGRLCS QLITEQADIALTRGAEVKGRCG WRPLGLRTQTLRGLKRTSPAQ QESHNMSKGPEATCQLSGTLG* EQ*GF*LLLWALAVAGKHTAN SHHLSALVTPAGKSYECQAQQ TISLASSDPQKTVFCRTYDSGCF DQSSLLFFFPIAEHKCPVDEREQ LEETLPLILGLILGLVIMVTLAIY
16173	46541	A	16268	2	321	PAWPPWPGITGFCPQQDPSNT FVVPAAHTV*CSHPCSYYKGIR QMVGLPQPLFHPDCPVTPQAHT DSLNTLGVLGGPPVCSDATLPQ IINALEEDPAAQKMQLAF
16174	46542	A	16269	120	327	
16175	46543	A	16270	540	791	

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16176	46544	A	16271	1688	1945	DRVSLLPRLRQENRLNPGGRGC SELRSHHCTPAWATE*GSVSKK KKKKKNQKKNQDFISLALPPS PHCPPLSQSLLLQPSSAN
16177	46545	A	16272	3	343	DIHHVRKSMEVNFLSYVVLTV AALPMLKQSNGSIVVSSLAET AMKAVSGIVHMQAAPKEECAL EIIKGGALRQEEVYYDSSLWTT LALIRNPCRKILEFLYSTSYNMD RFINK
16178	46546	B	16273	48	407	
16179	46547	A	16274	35	646	DLTGFIKFSLLLGLFMAYYYYYS ANEEFRPGKYPCVSFWRNRFK KHRGA*VAYHLAKMGAHVVV TARSKETLQKVRVLCSEQCVPS HAQMCSYI*DMTFAEQFVAQA GKLMGEAVSLTSSSELCPWGH QELLDIHHVRKSMEVNFLSYVV LTVAALPMLKQSNGSIVVSSSL AGKWDRDICGR*KKKKNARDD AVQTPGSKSAI
16180	46548	A	16275	221	393	LLYPANCVYMRCPQMLHFQGI QRPILL/HVSSGGAIHLQTGVET EEMRSAIAPDPIPLT

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16181	46549	A	16276	2025	4146	SDEWHSAGSVSGDYNSSAAVS KNDILLGIEHISVFSETNHSSEEA FIKTAKSQLVEIEPATQNPKTSF SYERLQALQETCKENKGVPKQ GDTFLSFSAACETDVSSVTPEK EFEETSATGSSMQSGSELLKE REILTAGKQPSSDSEFSASLAGS GKSVAKTGPESNQCLPHHEEQ AYAQTQSSLFYSPSSPMSSDDE SEIEDEDLKVELQRLRFRHIQEV VNLQTQONKELQELYERLRSIK DSKTQSTEIPLPPASPRRPRSFKS KLRSRPQSLTHVDNGIVVIDPLC VESNAASCQQSPASKKGMFTD DLHKLVDWTKAEVGNSLIKP SLNQLKQSQHKLETENWNKVL QLESVYHREDEATWLPQLRAQI VAYPACAAAIAAHRRSMGVQ GFQEFLEKRCPGAVVPVDLLKL ARTVSRQQQQHLHRQLPPTA ALAPGAPRAARGSVPLQPPLPP AALGAYSGGAGPIRHHHPAHH FHHHGQAQPGHPPLPPPPPQ LPGARVLVDAGSALPRLYGGY QTDWVCGGQWNAMLGYSAL CQACAYPGGDGLELVVMFPGG LGKDRLAEWGRRCAERQTAQ LIVGHVGNKGTPPPRAWFLPPA CLSHCVRLALIRFRF*VFQSLED HHLEVVAFFRENGFHGLLAHD SEYALYNIPSYSSHALKLSWN GKNLTNQFLMQEVAKQLGLK
16182	46550	A	16277	1	542	MRAPPKSGQLQHCPRSRGALRS GDLPWEINPLSSCSLLHEKDPP MTSGPQTNQKEHLTNFKSGV RP/LQGRLPWSFTLSGKSRSFGE GASTPTPYIS/GAPIPYFRTPTSY LCAPIPYVRTPTSYLCALTPFPL FWRHIRTSKRLN/LQQPGIPPEPP PPG/CLLQVPEI*PPGQGMPAAQ
16183	46551	A	16278	3	351	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFHPNLS LRPNPLCPHPDL/GISVP*PLSRF SGGT*ELPNA*TAAA/AAF/LPEP PPPG/CLLQVPEI*PPGQGMPAA QDSS
16184	46552	A	16279	1	513	
16185	46553	A	16280	774	1007	ARSVTSSSELCSWCLQASRHT HVPWCQL*KLPVVHLVQPQPC RGPAPGAALPAGSLEMPGTTEP ERGCHSPGLGIS

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16186	46554	A	16281	507	520	LLGLAAED*CCLIASEAP*TQS LFGGLFTRTHMKFGAVTQIRGP PLGDKSPVLLLFALERQRRHVL SMDPKLRCWSRTGKAAPFWCL IIAEMPDISPTFQRCQTTQGRLP WSFTLSSKSRFSGEGARACYKC QKSDHQAKECPQPGIPPKPCPIC AGPHWKSDCSTHLAATPRAPG TLAQGSLTDSFLA
16187	46555	A	16282	269	607	RARSEGAGLWSVVPASVSVFF VSDPRCAPFHRSPCCSPVDRV CRCLRRVALAPAAVLVCSGSH SQSPWNSGLKLSDRLLGLAAE D*RCPIASEAP*TTTDAELTIPGL
16188	46556	C	16283	1	1752	
16189	46557	B	16284	146	372	
16190	46558	A	16285	336	753	ARTPLAAASRGSGGTRGGAAW VAGDDLRGPAEPGPARRR RGKGTTPSSRPRTQRRPRSAAMH GHRCQPARRSREHPNTYPAGR RPPELRRGRSGVPPRP*RRPGE APRAPRPAAEL*ARLPRPSVRP APARRV
16191	46559	A	16286	1	768	FDELREEGFRQSVITNFSELKKD V*THRKEAKNLEKKLDEWLTR INSVEETLNDPMELKTMAQELR DACTT*FREKRVKRNEQSLQEI WDYVKRPNLRLIGVPESDGEN GTKLENTLLDMIQENFPKLARQ ANIQIEIQQIPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAREK GWVTHKGKPIRLTADLSAETLQ ARREWGPINFILKEKNFQPRISY PAKLSFISEGEIKYLTDKQMLR DFVTTRPALKEL
16192	46560	A	16287	345	894	EQRHNIPELGLHI*STSAGDTPA DRVWSGPPANSSRPAAEGPDC* KEN*QRARTS\NQNPICSPSSK TKEAKNLEKRLDEWLTRINSIE NTLKDLMEKTRARELRDAGR SFSSQFDQVEERVSVIDQMNE MKKEEFREKRVKRNEQSLQEI WDSVKRPNLHLIGVPESDGENG IKLENTL
16193	46561	A	16288	1	1206	

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16194	46562	A	16289	1	882	MAPVSASEDFWQCPETSLISQL ESAPGIQLMEARDADKSLIMHE IAPTSNRELPVHKISIAKPCSMML MISWFFVNTGQSFRKDQAAIF AVLQPLLVIHRQTGSGVDLQQT PTDLQLRDLTVRRKNNKQKGI ASTSRKRTSTPKPHLQDHSSSPA MEQSWMQKDFDKLAEVGFRR SVITNFSELKEDVQTHHKEAKN LEKRLDEWLTRINSVENTLNDL MELKTMAQELHDACTSFSRQF DQVEERSVIEDKISEIKQEEKF REKRVK\RNEQSLQTIWDYVVR PNLHLIGVS
16195	46563	A	16290	1	1008	MVRFDELGGRYGGPGGGERA RGGGAGGAGGPGPGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITEWPPFEYMILATHANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLNRGNWVMDFFVVL TGRKAGLGCCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELDRDACT FSSQFDQVQEMSVIQDQISEM KREEKFREKRVKRNE/QSLQ*I WDYVERPNLRL
16196	46564	B	16291	1	1257	
16197	46565	A	16292	3	467	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDP GSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIK*EDK
16198	46566	C	16293	115	498	

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16199	46567	A	16294	2	1455	TERDSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSASSPPKDCSSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLEK K\LDEWLTRINSIEKNLNDLMEL KTMAQELRDACTSFSSQFDQVE ERVSVIEDQMNMKQEEKFRE K\RVKRNEQSLQEIWDCVKRPN LHLGIPESDGENGTCLDNTLQ DII*ENFPHLAR*ANIQIEIQEIQ RTPQRYSPRRATPRHIIVRFTKV DMKEKMLRAVREKGFKPTKIR RDKEGHYIMVKGSIQEEELTIL NIYAPNTGGPRFIKQVLSDLQR DLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQELNSALHQVDLI DIYRTLQPKSTEYTFPSAPHRTY SKIDHVVGSKTLLSKCKRPETT TNCLSNRSAIKLELRIKKLTQNR SAAWKLNNLLNDYWVHNEM KAEIKMFFETR TKIQHARISGIL
16200	46568	A	16295	395	656	FQLQRPASCSSPIQHRKHIPRKP A\SQSSLPHTGKSARQPQEPQNR ENCLLRILIRVASEATRRWTRPS EFSSRSENPRAHHPRRALR
16201	46569	A	16296	671	1126	RRKVSELEHRRPVWKCPRRPPE VRKPESARVSFSPRGGARSRP GATRSPQPRVPAAASASFGFGG LGRGGRGERARRGRGPKLEGP ESSAVLA*RNFPSPRRRRPGR GVEIARLGGTGSSPRPCPKPDPT ASLSELMIPSDIPRRRN
16202	46570	A	16297	2571	2716	THGMLEKRCCLQENMPIPGKD FMTKTLKAIATKVKIGK*DLIKS FCT
16203	46571	B	16298	54	576	
16204	46572	A	16299	475	719	VTWIRNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16205	46573	A	16300	395	830	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMK*ATVPGPSLPLKK *TFCFLGFKVTLPPFMRSVSLE FGNLYQQRKILM*L*STVEMSLI LFICDLHIVKIMPKKPAEEENGL KEVPEASGPQNDGKQLCPPGNP STLEKINKTS
16206	46574	B	16301	54	576	

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16207	46575	A	16302	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16208	46576	A	16303	393	822	LSPCHNSFFFFFQAFDDIAKYFS KKEWEKMKSATVPGPSLPLKK *TFCSTLGFVKVTLPPFMRNSLSLE FGNLYQQRKILMYF*STVEMSL ILFICDLHIVKIMPKKPAEEENG LKEVPEASGPQNDGKQLCPPGN PSTLEKINK
16209	46577	A	16304	1	447	
16210	46578	A	16305	75	565	LLFSGFSLLHGYLPHWYLCHLP RSRSLGLRDKRWKVKGDTDFL SPSHPEYLLKEENDGHLCSLSFR MGNQFSSPLPAYTPLECILNHW DGFYP*NLEEKHLIALRTKGWP NYDLQEGLSWPQEGTIHFNTT WQLELFCRHEDRWSEATYMQ AFYILQGNRDLG
16211	46579	A	16306	1	1620	
16212	46580	A	16307	128	223	
16213	46581	A	16308	1	1578	
16214	46582	B	16309	592	883	
16215	46583	A	16310	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTIILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16216	46584	A	16311	84	237	DGIVLSTYYHFYWHHF*ILEGP LPANTGDLCLPLQVQPDREQVR WALFKK

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16217	46585	A	16312	2887	3537	HLDRSGLFNIQVIPVCRKLGKE GNDEKQCVTTSRSNAFFLLHF FLLATFTWMGLEAIHMYIALVK VFNTYIRRYILKFCIIIGWGKPLK IFLVLFPHENCQVYGKESYGK EKGDEL*VIKTCDE*ISFVS*SG VMFFLNIA MFIVVMVQICGRNG KRSNRTLREEVLRNLRSVVSLT FLLGMTWGF AFFAWGPLNIPF MYLFSIFNSLQGKINCT
16218	46586	A	16313	302	547	QIGLWTPNFRARTFCVWTGGL VLCF*GFCFQEAAGARDTSSFA MGVSPWEFRHG*LWPEMRSM QILELLVLEEFLTITGQ
16219	46587	A	16314	1	1174	WEEKENKEYLKSLEILMGMK QNIPLDGHEADEIPEGLFTPDNF QALLECRINS GEEVLRKR FETT AVNTLFCSKTQQRQMLEICESC IREETLREVRDSHFFSIITDDVV DIAGEEHLPLVLRVVDESHNLR EEFIGFLPYEADAEILAVKFHTM ITEKWGLNMEYCRGQAYIVSS GFSSKMKVVASRLEKYPQAIY TLCSSCALNMWLAKSVPMGV SVALGTIEEVCSFFHRSPQLLE LDNVISVL FQNSKERGKELKEIC HSQWTGRHDAFEILVELLQALV LCLDGINS D TNIRWNNYIAGRA FVLCSAVSDFD FIVTIVVLKNV LSFTRAFGKNLQGQTS D VFFAA GSLTAVLHSLNEVMENIEVYHE FWFEEATNLAHQ T
16220	46588	A	16315	717	902	GALQSWPCYLPRQC GATVQNF CGVPTCMRKSTWSNLVVRFP QDPSRCAN**LDCCTACTQ
16221	46589	A	16316	1	374	EHSEPPIGVQIVDYLLRQEKVT DRMDHSKVETETVLSFVDDIIS GAKSPCAMPSQVPDK/QAQEIA DKIYNLFNGYTS GKEQQTAYN TLLDLGSPTLHRVLYHYNQHY ESFGFTWRCEDELGPR
16222	46590	A	16317	2	1293	

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16223	46591	A	16318	219	1912	PHPTRTRSAQSVQYIEKDWGPG EGLEEGGVLGQLVAFDSFTVSF HFVSAGNSPSESEERERDPKV LTFPEYITSLSDSGTKHMAAGV RMECHSKGRCPSSCPLCHVTSS PDTPAEPVLLVTKAALLNTQS FPCSLMQLLQEATMSSLWCSGT GDVIEDWCRCDESTAFGGCVPVS CSFLSAHRLRLSTVHEPSSTLVV LEWEHSEPPIGVQIVDYLLRQE KVTDRMDHSKVETGEHLLLHG LVLIQGDKTKTKKNALPHGFAP GPQYPRAMQEEQGEAAVLLL QEAAVLLPLRVRDIRSCCFRHR ELLFLMLFPFLLLWAETVLSFV DDIISGAKSPCAMPSPQVPDKQL TTIYFQPLIARFSFSSRKGLLRIM SSHCHGDCDVSTLDSYTVSAN HALPLPARFTLWGVDNTGRRS RPSDVIVYM*ITYFPFPPSSEIAD KIYNLFNGYTSKGEEQQTAYNTL LDLGSPTLHRVLYHYNQHYESF ASF*LKYPLCLIHRKAGLILSQL GDLSSWCNGLLQEPKISLRSS LKYLGCYSEIKPYGLDWAELS
16224	46592	A	16319	1	2031	
16225	46593	A	16320	1	739	MKRAGSSGGRGECDISGAGRL GLEEAARLSCAVHTSPGGGRRP GQAAGMSAKERPKGKVIKDSV TLLPCFYFVELPILASSVVSLEYF LELTDVFKPVHSGFSCYDRSLS MPYIEPTQEAIPFLMLLSLAFAG PAITIMVGEGILYCCLSKRRNG VGLEPNINAGGCNFSFLRRAV RFVGVHVFGLCSTALITDIIQLY TGHQAPYFLTVRTPNYTSLNVS CT*NSYLAEDIRSRSDLTLTHSG

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16226	46594	A	16321	48	1359	GDKNQNP RNWPLGEGKGNSLG RKETGRSNSRSHSSRSKSR*QSS SRSRSHSRKKRHSSRSRSTY SRSWSRDRMYSRDDRH*YEVIV DCSRHGREYKGREPRHGSLSLE RPTEQETSQPKIRKEIVETKGTA RGNCGTTGLLRPKTMMVERSY GPQDRVAVGTWPHPGTERWAS SWDVSSSVRHQSEG VVQGW E H RCTHKSQQEVGACVNFRTPKVI LIYNLYLPVSHQFSKTFMSIVIV QKNLYLHNDFRALNVTHIYRLT IPNTTTCFTATQDEDKQIFHTAA QHRSHSTSSYQYLSLTRSHRYEI VFYTRGLGAPFPAGDGHGKFQ RLGKPYSHSVHFVIPQDKTQHIS INTPHKNSETTKQHTCSFAYGL YYYQQKEDNPYAWPQVPAAA EMVSRLAQSRHSQQSILIHFSHQ SYHTDHISTV
16227	46595	A	16322	227	3020	SCIKPRRKEMGRSNSRSHSSRSK SRSQS\SSRSRSHSRKKRYSS\ RSR\SRYSRSDRMYSDY RRDYRNNGMRPYGYRGRG RGV\YYQGGGGRYHRGGYRPV WNRHRSRPRR\GRSRSRSPKR RSVSSQRSRSRRSYRSSRSPR SSSRSSSPYSKSPVSKRRGSQE KQTKKAEGEPQEEPLKSKSQE EPKDTFEHDPSEIDFNKSSAT SGDIWPGLSAYDNSPRSPHSPSP IATPPSQSS
16228	46596	B	16323	258	3728	
16229	46597	B	16324	1	435	
16230	46598	A	16325	1120	1209	ASSDNPP*SEPRVSLTIEGQEIDF FLDTGTAFSVLSSCPGWLSSRS VTIRGILGQPVTRYFSHLL
16231	46599	A	16326	1291	1582	IHQSA LCI*LKVCKHTNQQP VSS SGFVNAPIDTLYLATLVGPWRT LCVHTLYLVNLVGMWRTFVSS SGIVNAPISALSKQTTWLYQSA GCGWGQIRE

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16232	46600	A	16327	2	840	APAVATEVLPGAGLTAGVLLW SDPKPSNPGSSHRVGASDLN PAHPTLLSYTMQKLEELDVL FDRSGHRTKFTNVGRMLLERG RVLLQAADKLTDDAEALARGW ETHLTIVTEALVPTPAFFPLIDK LAAKANTQLAII*VLGAWER LEQGRADIVIAPDMHFRSSSEIN SRKLYTLMNVYVAAPDHPHQ EPEPLSEVTRVKYRGIAVADTA RERPVLTVQLLDKQPRLTVSTIE DKRQALLAGLG VATMPYPMVE KDIAEGR LRVVSPESTS
16233	46601	A	16328	3	923	RFLSDGTIISVDSAGKVQFWD ATGTLVKSHLIANADVQSIAVA DFFPGHESRATEALCWAEGQR LFSAGLNGEIMEYDLQALNIKY AMD AFGGPIWSMAASPSGSQL LVGCEDGSVKLFQITPDKIQFER NFDRQKSRLSLSWHPSGTHIA AGSIDYISVFDVKSGSAVHKMI VDRQYMGVSKRKCIVWGVAFL SDGTIISVDSAGKVQFWD SATG TLVKSHLIANADVQSI AVADQR RQFRGGHSRGNL PFSAGPCV AS NSS*EAVGADKTPASHS*RAH CGPTAQQR*YLG GTDTHLVFRP
16234	46602	A	16329	2	1059	
16235	46603	A	16330	582	1540	
16236	46604	A	16331	1	720	
16237	46605	A	16332	1	477	
16238	46606	A	16333	1	540	
16239	46607	A	16334	1	261	
16240	46608	A	16335	964	1574	LRWCCGSQLFRGYWGGVTGR YLT VLPPLAVGCMAPWGPFS VRIA AVVFIQIFAGEVFWCPVM CVRGLCTPVL TGVP GHGN SHIP AIVFTCSLQTLVGGTRRWRC CAAGDVT KFPALVG VGGETPR PQLPIGVTTVILLQVLVWKFRGR NVMSVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16241	46609	A	16336	3	87	
16242	46610	A	16337	1	1398	

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16243	46611	A	16338	1596	2205	LRWCCGSQ LFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVVFIQIFAGEVFWCPVM CVRGLCTPVL TGVPNGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVAKFPA LVGVGGETPR PQLPIGVTTVILLQVLVWKFR NVSM SVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16244	46612	B	16339	276	442	
16245	46613	A	16340	1	300	
16246	46614	B	16341	1	903	
16247	46615	A	16342	119	889	RQHILESHSRPILCTTWLPLLIQ DPRTLQSAAMLLTQSLFGGIFT RTRMKFGAVTWIGGPPLGDQS PASSCSLLREKDPPTTSGPQTHQ PKEHLTNFKSGVRPRRDACLGP SPLAASPAFLGKGQVPQPLISLC PDPLFPHPNLISLRPNLCPHPD LVSLCPDPFPAFLEAHKNFQTPE PQQPGIPPEPPPGACYKCKQSD HQAKECLQPRIPKPCPICAGPH WKSDCSTHLAATPRAPGT LAE GSLTDSFSA
16248	46616	B	16343	1	498	
16249	46617	A	16344	3	903	
16250	46618	A	16345	1	684	
16251	46619	A	16346	2	1028	
16252	46620	A	16347	1	338	
16253	46621	A	16348	2	392	
16254	46622	A	16349	790	2184	
16255	46623	A	16350	773	890	
16256	46624	A	16351	467	606	
16257	46625	A	16352	1569	1841	
16258	46626	A	16353	430	980	LLTEDALDDLIPSFLTGTGQTPA FGRRVSGVIEIADGSRRRKAAA LTESNYRVLVGELDDEQMAAL SRLGNDYRPTSAYERGQRYASR LQNEFAGNISALADAENISRKII TRCINTAKLPKSVVALFSPHGE LSARSGDALQKAFTDKEELLKQ QASNLHEQKKAGVIFEAEVIT LLTSVLKTSSASRTSLSSRHQFA PGATVLYKGDKMVLNLD RSR* RGIT*AAGI*PS*AEKSWGDI*S* RSYHSFNFCA

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16259	46627	A	16354	1	343	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIARVGVMARG NAITLPVCGRDVKFTLEV\SGVI VLRRPLGYGQVMNVTRSCLLR THWMISLLFY*LVNRHRRSVE EYLVS
16260	46628	A	16355	1	584	MLRDLLKNVDLKGFEVDVRIIL TKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIARVGVMARGNAITLP VCGRDVKFTLEV\SGVIVLRRPL GYGQVMNVTRSCLLRTHWMIS SLLFY*LVNRHRRSVEEYLVS
16261	46629	A	16356	62	350	SLPNLDNAAICSSSSPTTR*SL SVSAAALRRRLPSAISDHTREVF STLSPRSTSRVNFTSRPHTGKV MALPRAITPTRAINESTIGAAGV DNEV
16262	46630	A	16357	291	502	RLFVHHHVHKHLLGDNRYPI WIMQPSAHP/RSPTTR*SLSV SAAALRRRLPSAISMTPTDLRP NAGVC
16263	46631	A	16358	1	378	
16264	46632	A	16359	159	433	SYVKYFPHQPAQKYFQQIHS GLHNADHVHKHLLGDNRYPIW IMQPSAHP/RSPTTR*SLSV AAALRRRLPSAISMTPTDLRP NAGVC
16265	46633	B	16360	1	624	
16266	46634	A	16361	3	299	
16267	46635	A	16362	163	699	
16268	46636	A	16363	795	980	
16269	46637	A	16364	663	734	
16270	46638	A	16365	391	1248	
16271	46639	A	16366	1	1143	
16272	46640	A	16367	1	271	
16273	46641	A	16368	1	493	MSKRRWLTGNGSDRENIRLDL GFLVSDEEKRYKCEDCGKAFN RSSNLTTHKKIHTGEKPYKCEE CGKAFKRSSILTTHKRIHTGEKP YKCEECGKVFKYLSSLSTHKIIH TGEKPYKCEECGKAFNWSSHL TTHKRIH\MERNPTNVKNVAKA LSTPLPLLNK
16274	46642	A	16369	728	1428	
16275	46643	A	16370	3689	3864	NYKSFFKWS/SQM QSMTKIYRG PLDHPDPCSNVNDIEGTPPEEI STAQPLLHPRPAGSS

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16276	46644	A	16371	2	126	WPLLLGCLSLTKEWGFQA*LE KHVKRVKFP SHNLVPGRSI
16277	46645	A	16372	728	2207	
16278	46646	C	16373	1	873	
16279	46647	A	16374	1220	2097	
16280	46648	A	16375	73	1438	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVA TKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALERGKGIYLDVEG RKYFDLSSYS AVNQGHCHPKI VNAL\KSQVGQN*PLTSRAFYN NVLGEYEEY\ITKLF\NYHKVLP MNTGVEAGETA\CKLA\ARKWG L/YTVKGIQKYK\AKIVFAAGNF WGRTLSAISSSTDPTS YDGF GPF MPGFDIIPYNDLPALERALQDP NVAAFMVEPIQGEAGVVVPDP GYLMGVRELCTR HQVLFIADEI QTGLARTGRWLAVDYENVRPD IVLLGKALSGGLYPVSAVLCDD DIMLTIKPGEHGSTYGGNPLGC RVAIAAL\EV\LEENLAENADK LGILRNELMKLPSDVVTA VRG KGLLNAIVIKETKDWDAWKVC LRLRDNGLLAKPTHGDIIRFAPP LVIKEDELRESIEINKTILSF
16281	46649	A	16376	600	806	

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16282	46650	A	16377	1	2255	EPDVCAKMAGRSMQAARCPD ELSLTNCSSVVNEKDFQSGQHVI VRTSPNHRYTFTLKTHTPSVVP SIAFSLPQRKWAGLSIGQEIEVS LYTFDKAKQCIGTMTIEIDFLQK KSNDSPYDTDKMAAEFIQQF NNQAYSVGQQLVFSFNEKLF LLVKDIESMDPSILKGEPATGK RQKIEVGLVVGNSQVAFEKAE NSSLNLIGKAKTKENRQSIINPD WNFEKMGIGGLDKG\FSDIFRR AFASRVFPPQIVEQMCKHVK GILLYGPPGCGKTLARQIGKM LNAREPKVVNGPEILNKYVGES EANIRKLFADAEQRRLLGANS GLHIIIFDEIDAICKQRGSMAGS TGVHDTVVNQLLSKIDGVEQL NNILVIGMTNRPDIDEALLRPG RLEVKMEIGLPDEKGRLLQILHIH TARMRGHQLLSADVDIKELAV ETKNFSGAELEGLVRAAQSTA MNRHIKASTKVEVDMEKAESL QVTRGDFLASLENDIKPAFGTN QEDYASYIMNGIHKWGDVTRV LDDGELLVQQTKNSDRTPVSV LLEGPPHSGKTALAAKIAEESN FPIKICSPDKMIGFSETAKCQA MKKIFDDAYKSQLSCVVDDIE RLLDYVPIGPRFSNLVLQALLV LLKKAPPQGRKLLIIGTTSRKDV LQEMEMLNASTTIHVPNIATG EQLLEALELLGNLKDERTTIA
16283	46651	B	16378	1	2181	
16284	46652	A	16379	1	441	
16285	46653	B	16380	47	482	
16286	46654	A	16381	1	636	MRDPNTRSRGFGFVTCATVE EVDAAMNARPCVVGRVTEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGSNFGGGRGGGF GGNDNFGRGGNFSGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM
16287	46655	A	16382	1	762	
16288	46656	B	16383	59	1042	
16289	46657	B	16384	76	848	
16290	46658	B	16385	179	400	

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16291	46659	A	16386	27	372	VGSLRRPGPPREETRRLRERRRS LEPWAFLLKEAKVG*QPSSLFQ WEGPMGLCSTPLVMNMGDSLI TK\HLFQVPPLTITSPGPRTRRPH S*YPSPLATGVWAAVWCKQP HFAK
16292	46660	B	16387	134	284	
16293	46661	A	16388	1	2013	
16294	46662	A	16389	313	770	IFGFVAMHGAPQAVLELLQ LTGDQSLGLSQRHMAALDALV HLLHGGGLAVLTAGAAPEHET RGIAGLREEQCRNPRCVKRGW AQEKQA*PGQRGGRKSSPFWSF TL/DSASAGPRAAHLHLPDVLS LQTLHHGLHRLHPELLQLSHG
16295	46663	A	16390	1	2753	
16296	46664	A	16391	1	1363	
16297	46665	A	16392	26	181	
16298	46666	A	16393	1	867	
16299	46667	A	16394	1	1447	
16300	46668	A	16395	31	659	APALPGCEHMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFHDH NISPTIG\ASFMTKTVPCGNELH KFLIWDTAGQERFHSLLPLYL\R GSAAAVIVYDFTEAGFHFPPLK KWV\KRLKELGPE\NIVMAIAG NKCDLSD\REVPPGMLKEYA ESIGAIVVETSAKNAINIEELFQ GISRQIPPLDPHENGNG\TIKVE KPTMQASRRCC
16301	46669	A	16396	1	1182	
16302	46670	A	16397	1	513	
16303	46671	A	16398	146	429	TFYTCFSPSPVFPFSIHTKPYPG HHQSFYMTNVSSNPTISPLTT RPPFSLISPALGSHAAPNPA*SSP EKHRPFSLHTTPQKFHRPNTSTL F
16304	46672	A	16399	1	435	
16305	46673	A	16400	56	477	ARAAKGESCEGPGVGRCSFSS YRQTPCCQRLVNVPKTR\RTF CKK\CGKH\RPHKVTQYKKGKD SFYA\QGRRRYDRKQSGYGGQT KPIFRKKAKT\TKK\MGLRLECV EPNCRSKR\MLAIKRCKHFELG GDKKRKGQVIQF
16306	46674	A	16402	183	373	IHGSSNPPTPERETLFWHAENG SALASC*KSGGQAPKRKVRTTL ILKAEILILGMLVLRSHGM

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16307	46675	A	16403	1	881	MPFKCKKQHTFNKTSPKEGAIL FTHGCLCTSPFNSEELSEHLGNL KLSSWEHLHHRSSQQTLSVRLH VPTPQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLTLHKHGCCLFRDLVRIQ GK DLLTPVSRILIGNPGCTYKYLNT RLFTVPWPVKGSNIKHTAEIA AACETFLKLNDYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLNFM DPQKMPYLKEEP YFGMGKMAVSWHHDENLVDR IQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSQEGLI SAFH SRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRC DKKSLLTLVRKINLQ GK RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCSRSPWRGLGHL EGNAQKGHLLHGVNKNQGHL L*MPPSPLPGGQKGRLVGMLS WVLT*VYKIQH/GT/PAAVEG*D EAFLAVWLGEVGVDFSPVPSL LWHS*RGCCSIHGIPELELNPVH QIFIM/SASSLPFSPCQNKVPLSG
16308	46676	A	16404	1	459	
16309	46677	A	16405	1	2025	
16310	46678	A	16406	1	816	
16311	46679	A	16407	1	217	
16312	46680	A	16408	3	135	
16313	46681	A	16409	21	218	
16314	46682	A	16410	392	3744	LNYKMLLKNLSPMSMLKAFSF AIPMQPPAQTNLPTAKPNGFQP LLLSQYNACPPPQ*EAG/QVDL CSTIPLNLLPDSLPLTVPTGPLPQ GSVGLVLGRASSAKGITIHTGL INSDSVDEIKLITSAKVPVSILAG ESIAQLLLLPNIILNKGDKTRGP GMGSRGEKAA YWINVISKQRP TCTIHIQGRKFEGLVDTGADV S VISSSLWPSSWLKHPTNMGLVG VGKAEVYVGSTFILPCTGLDGQ KGTIQPYIM
16315	46683	A	16411	1	783	
16316	46684	A	16412	1	1911	

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16317	46685	A	16413	3	1381	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDR SSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIKQDD KAAETCNWRWVSESLRQLRAS VDAFHARASHYNAGECLHQLA ALNSRLNCAQEMARRDSIG EVP PVPWRTVVGSGIAGEAKLDHL RLVSLIGREVNKENS PAATRWL FSFQAGALAGGQIVLQAAKPN AHGQPVVATRNLNPAGIVAV LKQRPRLVAAAVQAFYLRDPID LRACRVFKTFLPETRIMTSYYAI EWSLWTLVDVLHAENSESAHM SHNSYDPPSDVARHLTHLPMS IPDYIARFRYRHR SRVRLTARK LSPAFMRCSS EIQRYSTMLERG FNGGYCRSTTVRVVTEATRML
16318	46686	A	16414	1	1191	
16319	46687	A	16415	1	1909	
16320	46688	B	16416	1	1791	
16321	46689	A	16417	1	1818	
16322	46690	A	16418	1	1044	
16323	46691	B	16419	1	1140	
16324	46692	A	16420	1	1062	
16325	46693	B	16421	1	972	

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16326	46694	A	16422	1	1758	MDTFLQAERKDYMEAYELIEQ EEQGVKELNRPLTAPSALHPRD EAHLIMVDKLFVDLLDSVCQYF IEDFCIDVHHINSRWI/AVCQYFI EDFCIDVHHINSRWIKDLNVRP KTIKTLEENLGNTIQDIGMGKD FLSKTPKAMATKAKIDKWDLIK LNNFCTAKETTIRLPVNPNCGPV AETPLSRVFVLREARKTLKPHQ STCLSKGRDNSIDSWKTAARVL KTAISSTPTIPILKDQTQEWVS ATFTSDGKIRLFYTDYSGKHYG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLGELGW RREWSSGDRKSLARLSKTGTLG LAALTYKCTRDQWTVYCRVIR EKNLCQDMRWYQRCCQTCRD FYANKMSPATAELVTRSPKGRS KLRLRYQLVFISLKGKPKARKGK ASSGSKLSLLSSSKTVALAGMG RGDEFQMELESEDLTSERDGIL TPTSSNQKKSAYGSLIRT
16327	46695	A	16423	1	4449	
16328	46696	A	16424	3	3859	QFLPNLDSTVLGENYFDGTYQ MLYLLVKGTIPVEIHTATVIFVS FQLSVATEDDFYTSHNLVKNLA LFLKIPSDKIRISKIRGKSLRRKR SMGFHIEIEIGDPPIQFISNGTTGQ MQLSELQEIAGSLGQAVILGNIS SILGFNISSMSITNPLSPSDSGW IKVTAQPVERSAPVHHVAFVS SLLVITQPVAAQPGQPFQPPSV KATDSGNCVSVGITALTLRAI LKDSNNNQVNGLSGNTTIPFSS CWAN

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16329	46697	A	16425	65	1905	RTSSRKTTNHCSEIKEDTNNWK NIPCSWIGRINIVKMAKLPKPPL VIPRQTGSGVDLQQTPTDLHLR VLTVRRKTNKQKGHPHQNPIC SPSSKTKVLEVLARAFRQEKEI KGIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIKSIKLSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSKTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLSKF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVVRAEMAKTR RCQNVKGASEEGIRA/HCFVSH *PHCP/LWRATTLMETLKFKPIE VPCKPLEKSVSLLLL
16330	46698	B	16426	1	2348	
16331	46699	A	16427	1	660	MPNFFIDRPIFAWVIAIIMLAGG LAILKLPVAQYPTIAPPAVTISA SYPGADAKTVQDTVTVQVIEQN MNGIDNLMYMSSNSDSTGTVQ ITLTFESG\QVQNKQLQAMP/LL PQEVQQQGVSVKSSSSFLMVV GVINTDGMTQEDISDYVAAN MKDAISRTSGVGDVQLFGSQY AMRIWMNPNELNKVERNSRRQ DVGERDISSGRKVNKESREDE EVT
16332	46700	A	16428	1	975	

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16333	46701	A	16429	1171	2007	AVDIVQGLVRGWGRQGWLLS GRGIPEGPLLLWGATVGSWRR LLPLTGVCGLPLGAVPVLIS*LL GGAQVQLLREEEAGHELVQQL VDGALVLLLDGRLPLHVVADE RCCVLQDLPVLVHKDEVRLAR GGTAALRVLLLVVVDALDLV EQALGAQGLGVVLEHVHSLVV KGLEVRLLILLPPDLVEALLGLP PLLFLGLQSFQDNGDSGDRVLL EALDDLRLGLVAIDAINGTALDH LRRASQGVVQPELLLVRFRHPR QLLLHTFQHTDCGQVRLQDIV
16334	46702	B	16430	1	768	
16335	46703	A	16431	1	2553	
16336	46704	A	16432	3	573	CEMHSVQKNEHDKTPEHSRKR SRPSLLRPVSAPAKKKMKLRGT KDLSIAAVGKYGTLP/PIFFL*Q GPPGAEEPGGV*KLPPLHRTLQ PGAGVWL*APAARQPISGVSS* LPRAP*GGSVPVNSIYLVFSYCF *AMIVLF*NPVY*LT*LI*LLIPM HL*GAIHHLGTLQLVPLPVTSV VSILTRIQWVLE
16337	46705	A	16433	110	1347	LTTATGMELSMGSTTWTSLCK AENAAACQKEKPHIWLCSSSFL RLKRRRTTTKNTGTTKIASTVA VTIPPITPLPTAFCAPEPAPVLLT SGIPPRLNASENPQLLSGS/SSSD STGTVQITLTFESGTDADIAQVQ VQNKQLQAMPLLPQEVQQQGV SVEKSSSSFLMVVGINTDGTMT TQEDISDYVAANMKDAISRSTG VGDVQLFGSQYAMRIWMNPNE LNKFQLTPVDVITAIIKAQNAQV AAGQLGGTPPVKGQQLNASIIA QTRLTSTEEFGKILLKVNQDGS RVLLRDVAKIELGGENYDIIAEF NGQPASGLGIKLATGANALDT AAAIRAELAKMEPFFPSGLKIG YPYDTPPVNISIHEVGKTLVE ANNLVFLAMNLVLQEFPADVIS TIAGPPSLRSSRVPGL
16338	46706	B	16434	1	2550	
16339	46707	B	16435	1	630	
16340	46708	A	16436	270	455	
16341	46709	A	16437	174	492	GALQPPPCTVGAPFWAGQGWS PLPQLAGRCGGRGTTRGTGAAC GACGPAGVPGGGLGLGPRTRSS RPALLAPGNGLSTRASCGGCG TESPSSGWPTSAALDFLPGP

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16342	46710	A	16438	3	413	
16343	46711	A	16439	31	507	
16344	46712	A	16440	1	537	
16345	46713	A	16441	152	247	
16346	46714	A	16442	44	208	EEMTSKMYKVIIRKTMKASVC TQVKHPAIASICKAVL*VGPWS GHFKYAGLPTL
16347	46715	A	16443	1	549	
16348	46716	B	16444	376	862	
16349	46717	A	16445	2	1603	TNVSTTIATVVLNALARATKLL PPGHRRSPNPATAAASSPPTTLA HCSLRSHHQPLRGEQQPQAI RT TAGRCKALSSCPSFFECGRSSG APPGACGQIFRVSNAKLEPQAR PSSPVTGGPLDLMACRVVAAST REMAMLIAQALQTINYGRDDE NGHTHSACEVHHGGRVPELSV PSFSWRNRNPSFIMGSITPTDY TLSKCYLPREDVVLIIYCGVSTN EQPDEEVPRTRFPTVAVSIGFAV RQELEFGVIYHCLE\YRLYTGRR GRGAF CNGQRLRVSGETASGM LPGIQIHIQQEQNLQVGASTEL PCNLHTTRIRVASAPSSAPEDGT ESKTCNFRVTSSKGYCLALPRV PFPLTTGYKHLHKPPTGTHSTY HSMCLLNQPGWLRTISILFLNN KICWQKKSGREIKIEDYFPEYA NYTVPEDGHLSAHLIYLSGLCM WLQHSGQDSILYTDYRRGGEN SFVMVNSVALNGDCCGICSETE AELIEVSHRLNCSREVGEHLNA TGELGEERAHGRQQAACGFTIA
16350	46718	A	16446	1	648	

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16351	46719	A	16447	329	2497	GEGQAVLQGKMGGEKPI\GA GEEKQKEG\GKKKNKE\GSGDG SRAELNPWPEYIYTRLEMYNIL KAEHDSILAEKAEKDSKPIKVT LPDGKQVDAESWKTTTPYQIAC GISQGLADNTVIKVN NVVWD LDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYG GCLCYGPPIENGFIYDMYLEEG GVSSNDFSSLEALCKKIIKEKQA FERLEVKKETLLAMFKYNKFK CRILNEKVNTPTTTVYRCGPLID LCRGPHVRHTGKIKALKIHKNS STYWEGKADMETLQRIYGISFP DPKMLKEWEKFQEEAKNRDHR KIGRDQELYFFHELSPGSCFFLP KGVYIYNALIEFIRSEYRKRGFQ EVVTPNIFNSRLWMTSGHWQH YSENMFSEFEKELFALKPMNC PGHSLMFDHRPRSWRELPLRLA DFGGLHRNELSGALTGLTRVRR FQDDAHIFCAMEQIEDEIKGC LDFLRTVYSVFGFSFKLNLSTRP EKFLGDIEVWDQAEKQLENSL NEFGEKWELNSGDGA FYGPKI DIQIKDAIGRYHQCATIQLDFQL PIRFNLTYVSHDGEDKKRPVIV HRAILGSVERMIAILTENYGGK LAPFWLSPRQVMVVPVGPTCD EYAQNVRQQFHDAKF MADIDL DPGCTLNKKIRNAQLAQYNFIL VVGEKEKITGTVNIRTRDNKVH
16352	46720	C	16449	189	456	
16353	46721	A	16450	3	1414	
16354	46722	A	16451	95	293	

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16355	46723	A	16452	1	1136	MKKRPGHSLFQFQFLMFRLFSE ARQPLSEEDVASLSWRPLHLPS ADWQRAALSLWTHRTFREVLK EEDVHLTYQDWLHLELEIQPEA MLFQILNGRTSTSGRSMSTFSL SPRLQGAVTETCRLRVFPFLSTH* WISTKAQGVMTTQKILIWSLVA AQEMRILFPDCRRW*LTWSCSK TS*CLSATPLPRSTSSLRFSADG SRL*QAGGAWLPAFRDRGSC*C TNGSSSACLRLSSAAAASRQNS PSLPDASSSTWSTLR*ETSAPT EVP*HRTSLPTS\QGPPERLSAE QRPLPDGR/RSYWPSARRNA/RL ILT/FCSGVVAEPGACAALPVEE TLPEPAAPGTAEATRRPAVCQR VRVGAIGFPFLLLLDGPVVTS DLK
16356	46724	A	16453	3003	3482	HRPRTRPCWRRNHHLGHRAP L*PQRARR*SPNPPEDGSEDEHL *QLC
16357	46725	A	16454	598	759	KVILGLWTEEAQVGGQGLRAP TPRLLHHVLK*DIKR*AHRPDA VAHACNPNTLG
16358	46726	A	16455	1	1767	
16359	46727	A	16456	2	572	
16360	46728	A	16457	1	726	
16361	46729	A	16458	155	1334	HALGRRGGSQELSAAAGAASP SGSERRAPGALPCAWAAALLV LGAPPASRPGGFAAGKTMLLK E\YRI\CMPLTV\DEYKI\GQLYM ISKHSH\EQSDRGEGVEVVQKE PFEDPHHGNGQFTEKRVYLNSK LPSWARAVVPKIFYVTEKAWN YYPYTITEYTCSFLPKF\SIHIET KYEDNKGSNDTIFDNEAKDVE REVCFIDIACDEIPERYYKESED PKHFKSEKTGRGQLREGWRDS HQPIMCSYKLVTVKSEVWGLQ TRVEQFVHKVVRDILLIGHRQA FAWVDEWYDMTMDDEVREFER ATQEATNKKIGIFPPAISISSIPLL PSSVRSAPSSAPSTPLSTDAPEFL SVPKDRPRKKSAPETLTLDPDE KKATLNLPGMHSSDKPCRPKSE
16362	46730	A	16459	26	355	
16363	46731	A	16460	86	489	
16364	46732	B	16461	1	201	
16365	46733	A	16462	3	367	

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16366	46734	A	16463	58	553	VARSAAPPDGAVCAGPGSRRT MAEQSDEAVKYYTLEEIQKHN HSKSTWLIHHKG\YDLTKFLE EHPGGEEVLREQA\GGD\ATENF EDVGHSTDAREMSKTFIIG\ELH PDDRPKLNKPPEP*RRCFKETLI TTIDSSSSWWTNWVIPASAVA VALMYRLYMAED
16367	46735	A	16464	185	489	
16368	46736	A	16465	134	345	
16369	46737	A	16466	572	1017	
16370	46738	A	16467	911	1013	
16371	46739	A	16468	1	157	FGGNQKGERTGQKGKGERGAK RKDFPGAVCISALGLLAKGCG* SWRPSSSAN
16372	46740	A	16469	71	369	SCGLSLIKMTTSQKHRDFVAEP MGEKPVGSLAGIGEVLGKKLE ERGFDAKYVVLGQFLVLKKDE DLF\REWLKDTG/APNAKQSR DCF*CLREWCD AFL
16373	46741	A	16470	1	831	
16374	46742	A	16471	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
16375	46743	A	16472	536	717	
16376	46744	A	16473	1	1632	
16377	46745	A	16474	1	651	
16378	46746	A	16475	1	903	GGGGRMKLIDYGLSGYQEESA E\VKAMDFITSTAILPLFGCLG VFGLFRLQWVRGKAYLRNAV VVITGATSGLGKECAKVFYAA GAKLVLCGRNGGALEELIRELT ASHATKVQTHKPYLVTFDLTDS GAIVAAAAEILQCFGYVDILVN NAGISYRGTIMDTTVDVDRV METNYFGPVALTKALLPSMIKR RQGHIVAISIQGKMSIPFRSGI CQPSKHATQAF\FDCLAVPEM\E QFEIEVTVISPGYIHTNLSVNAIT ADGSRGVMDDTTTAQ\AEALW RWPRMFLLWGRRRKM
16379	46747	A	16476	359	1094	
16380	46748	A	16477	1	906	
16381	46749	A	16478	1	371	
16382	46750	A	16479	11	257	
16383	46751	A	16480	2	419	
16384	46752	A	16481	1	2514	

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16385	46753	A	16482	262	822	AGCTRKTRIIDVVYNASNNELV RTKTLVKNCIVLIDSTPYRQWY ESHYALALGRKKGAKLVRVTS L*GLWGGQPDSSLLVMKTLSSS ATEGREMRAF*AEEGQHWGVQ GSRKLPGPAFLP*AHIFVSPFQT PEEEEEILNKKRSKKIKKYYDER KKNAKISSLLEEQQQKLLGE KADELEVGSRRD
16386	46754	A	16483	2	799	SQWLKLPSPPLPHAGISRY\NWD QAP*KTGGPRESYPYHKKREVM KLGRPSCP/NPKIGPPAGIQHSP VCRGG*QVNTRAPEVWTVGNF \SWGLICRCTP*NKDPSIVVLQC HLNNGAWFRTQGPWVEEFCIV ASSDQQQPYR\QWVRSPNLCAC PLGPAKKGEPKLDLSRKEEIFK QKNDLKLRKEI*LKRKKNCQI PAVLPGREQFPARGKLSGRA/SR FQGGQQLWAEQDGFCA*EGQK SLEFLSFRKNPRPRKGQIKFLVF VFHPC
16387	46755	A	16484	1	681	
16388	46756	A	16485	287	694	HSSRPAPASAPRRWGLSWWQ RCWC**TPSPSPRPRPAEG\CLR GRGRGAGGGLPFRPHGSLVHS GAQPPHFPHLPGGARQTCGAPP GSWSCVL/CRPAETGAAAAGSP AAAGSTRKRLGRAQGRGCRVA ALRLSPTH
16389	46757	A	16486	189	381	QGAGSVGRTGQQLLKPGPFLE KLLSLGCT/LSG*ALRARACCSP CCRPAGACQPQAPVAQAGHP

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16390	46758	A	16487	1	2388	QGR LVAKPPR PARSTAADSSTP RDMLGLRPPLALVGLLSLGCV LSQECTKFKVSSCRECIESGPGC TWCQKLNFTGPGDPDSIRCDTR PQLLMRGCAADDIMDPTSLAET QEDHNGGQKQLSPQKVTLYLR PGQAAAFNVTFRRAKGYPIDLY YLMDSLVSMLDDLNRNVKKLGG DLLRALNEITESGRIGFGSFVDK TVLPFVNTHPDKLRNPCPNKEK ECQPPFAFRHVLKLTNNSNQFQ TEVGKQLISGNLDAPEGGLDA MMQVAACPEEIGWRNVTRLLV FATDDGFHFAGDGKLGAILTPN DGRCHLEDNLYKRSNEFDYPS VGQLA\HKLAENNIQPIFAVTSR MVKTYEKLTEHPKSAVGELSE DSSNVVHLIKNAYNK\LSSRVFL DHNALP\DTLKVTYDSFCSNGV THR NQ\PRGDC\DG VQINVPITF QVKVTATECIEQSFVIRALGFT DIVTVQVLPQCECRCDQSRDR SLCHGKGFLCIGICRCDTG YIG KNCECQTQGRSSQELEGSCRKD NNSIICSGLGDCVCGQCLCHTS DVP GKLIYGQYCECDTINCERY NGQVCGGPGRGLCF CGKCRCH PGFE GSACQCERTTEGCLNPRR VECSGRGRRCRCNVCECHSGYQ LPLCQECPGCPSPCGKYISCAEC LKFEKGPF GKNC SAAC PGLQLS NNPVKGRTCKERDSEGCWVAY
16391	46759	A	16488	353	1205	
16392	46760	A	16489	11	440	FRALTEGDTQLNWNIVSFPVAE ELSHHENLVSFLETVNQPHHQN VSVPSNNVHAPYSSDKEHMCT VVYFDDCMSIHQCKISC\ESMG SHPNIRWVSLMACCECIGPECID YGSKTVKCMNCMF*RRQMQT KAT**NNRYKKLKK

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16393	46761	A	16490	515	1808	KRKQTGEFGFNSFE\WCDSDLC EMNAGMPKGKGNLNEQDPKHCPE SEKCLLSIEDEESQQSILSSLENH SQQSTQPEMHKYGQLVKVELE ENAEDDKTENQIPQRMTRNKA NTMANQSKQILASCTLLSEKDS ESSSPRGRIRLTEDDDPQIHHPR KRKVS RVPPVQVSPSLLQAKE KTQQSLAAIVDSLKLDEIQPYSS ERANPYFEYLHIRKKIEEKRLL CSVIPQAPQYYDEYVTFNGSYL LDGNPLSKICPTITPPPSLSDPL KELFRQQEVVRMKLRLQHSIER EKLIVSNEQEVLRVHYRAARTL ANQTLPFSACTVLLDAEVYNVP LDSQSDDSKTSVRDRFNARQF MSWLQDVDDKFDKLTCLLM RQQHEAAALNAVQRLEWQLK LQELDPATYKSISIYEIQEFYVPL VDVNDDEFELTPI
16394	46762	A	16491	1	699	
16395	46763	B	16492	6	5954	
16396	46764	A	16493	22	585	
16397	46765	A	16494	1	837	
16398	46766	A	16495	1	1422	
16399	46767	A	16496	13	189	
16400	46768	A	16497	193	366	GRPGIFKSFCRWW*C*FHMEFI WKSSA*/WSGVWHAGNICLSIS NPEDLRASQFCSSG
16401	46769	A	16498	1	888	
16402	46770	A	16499	3	531	DAWADAWADAWADAWALQS RRRRRTQLTLSSPHDCYRGLQ SLLLILCKMATLKEKLIAPVAEE \EA\TVPNN\RITVLGDGQVGMA CAISILGKSL\ADELALVDVLED KLKGGNDGSFQHG\SLFL\QTPK \IVGRIKDYSG\TAQF*RIVVGN WQGVRSARRGKVRNVLVQRN VNVFK
16403	46771	A	16500	2	406	
16404	46772	A	16501	2	394	
16405	46773	A	16502	1	399	
16406	46774	A	16503	74	464	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKDGKKRKRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP G\EL\AKHAVSEGTK\AVTKYHQ
16407	46775	B	16504	84	832	
16408	46776	B	16505	201	829	
16409	46777	A	16506	1	804	

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16410	46778	A	16507	3	615	PECHIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGP AIFCR* LLSF*ETALG LLLGFGGN*TFDY
16411	46779	C	16508	25	153	
16412	46780	A	16509	1	1317	
16413	46781	A	16510	1	1557	QVPGCIIGIDILSSWQNP HIGSLT GRVRAIMVGKAKWKPLELPLP RKIVNQKQYHILGGTVEISATIK DLKDTEAVTPTTSPFN SPIWPV QKTDGSWRMTVDYCKLNQVV TPIAAAVPDV/VSLLEQINTSPG TWFEWSPK\KALQQVQAAVQA ALPFGPYDPADPMVLEVSAD RDAIWSLWNA AIGESQRRPLGF WSKALLSSADNYSPFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ HWKCAVHT/IKWKWYIRDWA QAGLEGTS*LYWPRASRYQQG HQDLFILRSDLPSQVFIRDKLME RRNRRTGRTEKARIWEVTDRT VRTWIGEAVAAAAADGVTF SV PVTPTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTE VYTKVF ALDVAARHRVQFAMPESDAVA MLKQLS
16414	46782	A	16511	41	428	
16415	46783	A	16512	1	1026	

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16416	46784	A	16513	648	1886	LDPEVAWAKWQHSTVKGPQK QFAFSWQQQYFTFTGLPQGYIN SLSLCYNLIPRDLDRFSLPQDIT LVHYIDIMLTGSSEQELAYTL DLLVRRLCAKGWEINLTEIQEA STSVKFLRVQWCGACQDIPSK MKDKLLHLFPPTTKKKASLFGF RRQCIPHLECGPEQEKAQQAAQ AAVQAAVPLERYDPADPMVL/ V/ELTWLWPLLSAQFASGDQH *ALHMAPFLGVVSQPLGGKLIIL DIFHHGKGRVLSLE*TLTPDM GLPILHIMLLPRLPSVNSQNALS TVMPGFTGPGIKGWKWHHSPS PLVIH*QNFCFLFP*HYVLLA*R S*FQRKEPCHQET*Q*FH*TGS* GCQLDTLGSCYF*VNKLRRRELQ CWLG*LTQTIKMKSVYYISITEN CWMKRSPVKRRKILELEEA
16417	46785	A	16514	1	402	
16418	46786	A	16515	1	396	PTRPGERSVHVEIPRRVGSGAG HAQWAGPVRVARPQLNAQLE GWLSQVQSTKRPARAIAPHAG YTYCGSCAAHAYKQVDPSITQ RFRYSYYDESQGEIYRSIEHLDK MGMSIIEQLDPVSFSNYLKKYH
16419	46787	A	16516	2	358	
16420	46788	A	16517	2	769	
16421	46789	A	16518	1	1017	
16422	46790	C	16519	54	294	
16423	46791	A	16520	159	245	GISVSCSMYL*PDRSAGYYGLF KDRKEK
16424	46792	A	16521	1	1227	
16425	46793	A	16522	1	2697	
16426	46794	A	16523	200	696	YGIVTGPSLCAGDKQPKKQEK NPVLVSPEFVDEALCACEEYLS NLAHMDID/IGPGGPAVPQPPRA GPSSSVTTPSGPVSPQLGLWA VGRCLGIDPFCLVQPLPLPQASR SFTPLFCSGTLEDHCLRDVRVW ATFLGSWHSIVTKSMDCATKW TAHYPKCVLCGC
16427	46795	B	16524	1	960	
16428	46796	B	16525	1	2183	
16429	46797	A	16526	306	1844	
16430	46798	A	16527	59	189	YNSGCLYGSQCSVCRL*GVRN QVRSQQAMMAMAILVNKKG G
16431	46799	A	16528	1	2034	
16432	46800	B	16529	1	855	
16433	46801	A	16530	1	834	

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16434	46802	A	16531	65	172	
16435	46803	A	16532	321	429	
16436	46804	A	16533	460	647	
16437	46805	C	16534	529	804	
16438	46806	A	16535	3	433	
16439	46807	A	16536	1	484	
16440	46808	A	16537	511	681	QQGYTPFQSGGRESFLASSFW WL/PGLPWLA AAA*LQALTPSSH SLLSYLCSLLFCHP
16441	46809	A	16538	51	634	PVPTFGLPARHTGAEKRRKNSG GEQLSKNNLYIRGLPPGGTDQD LIKLCQPYGKIVS\TRAF\LDKTTI RCKGYGFVDFDSPA AAAQKAVA SLKANGVQAQMAKLQERDPA\ GLSVSSLLL\SMYEQELENMLK PFGHVISTRILRDANGVSRGVG FARMESTEKCEVVIQHFNGKYL KTPPGIPAPSEPLLCKIADG
16442	46810	A	16539	1	759	
16443	46811	A	16540	74	352	
16444	46812	A	16541	1	747	GSAVYLCYKKSVAKTNTVSYK AGLICRYPQEDYESFSLPESVPL FCLPMGATIECWPSNSKYPLPV FSTFVLTGASAEKVYGA AIQFY EPYSEENLTEKQRLLLGLTSAD GKSDSSKTIHTNKCICLLSHWPF FD\AFRKFLTFLYR\YSISGAHVL PIEKHISHFMHKVPFPSPQRPRIL VQLSPHDNLILSQPVSSPLPLSG GKFSTLLQNLGPENAVTLLVFA VTEHKILIHSLRPSVLTSVTEAL
16445	46813	A	16542	319	969	
16446	46814	A	16543	131	342	NSDMGLNLGSALTG*PWVAIEF CCFGFFQIIIVFSCLLGWL*VAP HPNLPSSPAEYMDFREAEQEGTD VIY
16447	46815	A	16544	1	1086	
16448	46816	A	16545	469	759	
16449	46817	A	16546	3	598	
16450	46818	A	16547	227	604	
16451	46819	A	16548	416	1814	
16452	46820	A	16549	763	867	
16453	46821	A	16550	1	1419	

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16454	46822	A	16551	915	3125	SLAGMRLTGTVSGGEVVRV/TAK AGARVGPPPELVGRPLEGECWY FSGVSR TQAQQLLLSPPNEPGA FLIRPSESSLGGYSLSVRAQAKV CHYRVSMADGSLYLQKGRLF PGLEELLTYKANKWKLQNPLL QPCMPQKAPRQDVWERPHSEF ALGRKLGE GYFGEVWEGWL GSLPVAIKVIKSANMKLTDLAK EIQTLKGLRHERLIRLHAVCSG GEPVYIVTELMRKGNLQAF LGT PEGRALRLPPLLGFACQVAEGM SYLEEQRVVHRDLAARNVLVD DGLACKVADFGLARLLKDDIY SPSSSSKIPVKWTAPEAANYRV FSQKSDVWSFGVLLHEVFTYG QCPYEGMTNHETLQQIMRGWF FGCISRSEAVRRLQAEGNATGA FLIRVSEKPSADYVLSVRDTQA VRHYKIWRRAGGRLHLNEAVS FLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERP REEFTLCRKLGSYGFEVFEG WKDRVQVAIKVISRDNLLHQQ MLQSEIQAMKKLRHKHILALY AVVSVGDPVYIITELMAKGSLL ELLRDSDEKVLPSSELLDIAWQ VAEGMCYLESQNYIHRDLAAR NILVGENTLCKVGDFGLARLIK EDVYLSHDHNIPYKWTAPEALS RGHYSTKSDVWSFGILLHEMFS RGQVPYPGMSNHEAFLRVDAG
16455	46823	A	16552	1	990	
16456	46824	A	16553	1	2847	MTAREHSPRHGARARAMQRAS TIDVAADMLGLSLAGEPHRACT GLQTTGYPG\ADPSG*TRK*GRG MSALFL*TASAGA*LH*FSSLVA GAPPG*CGNVQVF/WLAHAQA MGTNNPIFLSSIAFFQDSLINQM TQVKLSVYDVKDRSQGT VKSA ESDRVGNITVIGWQMEEKSDQ RPPVTRSVDTVNGRLHPPAPTV MHSLSHRHSKKNSNFRALALM VLPVDESLTEALGIRSKYASLR KDTLLKSVFGGAICR
16457	46825	A	16554	1	327	
16458	46826	A	16555	259	3109	
16459	46827	A	16556	262	3159	
16460	46828	A	16557	1	1398	
16461	46829	A	16558	123	393	
16462	46830	A	16559	245	424	

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16463	46831	A	16560	1	531	
16464	46832	A	16561	2348	2775	
16465	46833	A	16562	373	555	LRIQVTFDDVAVEFTPEEWALL DTTQKYL YRDVML\ENYMNLA SVGKSNITLLGMVACTCS
16466	46834	A	16563	165	457	
16467	46835	A	16564	310	349	K*TMK*EMGKFK*FY/IYLEQED YANANALLSPAPALPKEKRTDS NGRVYFVNHNTRITQWEDPRS QGQLNEKPLPEGWEMRFTVDG IPYFVDHNRRTTTYIDPWSTRP
16468	46836	A	16565	1	2217	
16469	46837	A	16566	1402	1860	
16470	46838	A	16567	461	696	KRMCFCTSLSSARSSGSMYMSC RICCSMMPPFSSVFRSISRYSR AAFWAWTETRLCWQAAMPRQ QPPGLLHQWTTSP
16471	46839	A	16568	1	601	
16472	46840	A	16569	468	1213	
16473	46841	A	16570	2	365	EGCFQKIKLDHILSPPPMPFWK CSNPDVAFGPGKSLKYKRQLS* DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMNCPPIK
16474	46842	C	16571	220	408	
16475	46843	A	16572	840	1091	QSLQHDVTL*VPVLLSYPEPAPS GHGLLRGSAQIAL*TIADPAGT YLKTREPTLGCQTVPLPAPHLS VDTVCRCLSSSVWPQ
16476	46844	A	16573	1	1356	
16477	46845	B	16574	1	1084	
16478	46846	A	16575	2	526	QPRGKKFSKNKPRKQNFPTPKH MRVVLPPF/PPLKFFIFPKGLKFL EGGCPNISPPQKKGSLPKIPR*V LIRPPIRKKLFPCTARVKLGPPQ GSFKTAAPSSSSP*SADPVYLAG K/PRQSSSPGGTGGLNPPPRRLQ PQHPGPSWHSSSRGPGGHPR RESAERSRCASGNPGGQ
16479	46847	A	16576	36	167	RQLFENTQSDETKQEQNKQNK K*STATESRKVPQTGKSKSYWP
16480	46848	A	16577	171	527	
16481	46849	B	16578	1	471	
16482	46850	A	16579	1	294	
16483	46851	A	16580	185	299	GLQYLKGKSGLKVKRGKVV*S ACCKKKGAALGTVASPL
16484	46852	A	16581	3	414	

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16485	46853	A	16582	462	928	WGVPGLPGRHLLPLSPQPPSW LSILYVSWAALTCLNSGESTA AKFFCPNLSAISYHTEAIPPTWQ GVHLSWAFGNGAPDIFSGPGGL L*PA/PQP/DLALGALFGAGVLV TTVVAGGITLTLFIQHHTTQEI H*QIVQWIKTTL*ILATVSYVIG
16486	46854	A	16583	1	654	
16487	46855	A	16584	66	323	RVSLEIHVIQKRRPHLSLLSFV TRMKTFRRRK/WGEAEESATDT TSETNKVGTGVFVLSLVVPVL VRNLAGPGVVVLGNICKHFPVC
16488	46856	A	16585	1	1530	
16489	46857	A	16586	615	873	FVFLWSLMMVMYRWGFGVAV LSVC*FSF*QSGPSAAGLLEFAG GPFQTPFAWVSVEAAEQRIML NSKRCCVIVPLVVSSQRGTRP
16490	46858	A	16587	286	626	PCKLFPCCNTCYSRV*DFFRVA GKRSLNLNNYTSWNTSMLVPR VAFACGFPLQQAALCVHLLG SPILGAADSSVTPPFCWMANAH ICGLQLQNTLSFAEPIYLGQEHA QLS
16491	46859	A	16588	226	489	PYLSVIFFFDYGINEEQCRPIQ GDGQNFHRHNGWIKINPSCISF AIFFPFGAEKNMWSTPVTEAFN LLST*AF*LFGYKCTLVISSS
16492	46860	A	16589	1	1344	
16493	46861	A	16590	1	257	
16494	46862	A	16591	73	374	ESETEHKRPGKHSPKRSCNMCG QWAFHASLTVSYCLLTWCNET CSGDGCEGGMRIDIDPPVSQTR FFITLL*LCAPGAGPQPAYFCTQ TQCHVETPRVSQ
16495	46863	A	16592	1	666	
16496	46864	A	16593	95	1840	
16497	46865	A	16594	1740	2026	
16498	46866	A	16595	39	487	SRLDPRVRLFRQFCETRPGLC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTPKSPVFIAQVGQ DLVSQTEEKLLQKPKCELFSAC AQSVHEYLRGEPFHEYLDMSFF DRFLQWKWLE/RVCACQVRAT GK\MYACSRLEKKRIQKRK
16499	46867	A	16596	1	591	

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16500	46868	A	16597	71	1994	EQEQRGRQGGLLAPPAPAAAA AARAAAAAAAAAPQALTAPPAG SVADRRLSMELENIVANTVLLK AREGGGGKRKGKSKKWKEILK FPHISQCE\SLRRTIDRDYCRVC DKQPIG\RLLFRQFCETR\PGLEC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTPKSPVFAQVGQ DLVSQTEEKLLQKPCKELFSAC AQSVHEYLRGEPFHEYLD SMFF DRFLQWKWLERQPVTKNTFRQ YRVLGKGGFGEVCACQVRATG KMYACKRLEKKRIKKRKGESM ALNEKQILEKVNSQFVVNLAY AYETKDALCLVLTIMNGGDLK FHIYNMGNPGFEEERALFYAAE ILCGLEDLHRENTVYRDLKPEN ILLDDYGHIRISDLGLAVKIPEG DLIRGRVGTGYMAPEVLNNQ RYGLSPDYWGLGCLYEMIEGQ SPFRGRKEKVKREEVDRRVLET EEVYSHKFSEEAKSICKMLLTK DAKQRLGCQEEGAAEVKRHPF FRNMNFKRLEAGMLDPPFVPD PRAVYCKDVL DIEQFSTVKGVN LDHTDDDFYSKFSTGVSVIPWQ NEMIETECFKELNVFGPNGTLP PDLNRNHPPEPPKKGLLQRLFK RQHQNNSKSSPSSKTSFNHHINS
16501	46869	A	16598	1	963	
16502	46870	A	16599	192	609	RPKGARELRLHPGPRYGR TSPQ NCPWARPGCLHEAL*G\WKICL HCKCPQEEHMTVMPLMEKT ISKLMFDFQRNSTSDDDSGCAL EEYAWVPPGLKPEQVHQYYSC LPEEKVPYVNSPGEKLRIKQLL HQLPPHDNEV
16503	46871	A	16600	1	915	
16504	46872	B	16601	30	820	
16505	46873	A	16602	99	248	RLEKHINCSRVi*SWAASPGLTA AAYRVTLNPPGTFLEGVAKVG QYTFT
16506	46874	A	16603	1	717	
16507	46875	A	16604	271	556	TAACLOSHHFKSSGQLSFERKW PKVGTITRSIASLLSGPVFGLHH LAFSAHVPREGPTTPWNYFPRV AAP/RRWTPGEHARTTTGLGAA PCVLLWA
16508	46876	C	16605	135	341	
16509	46877	A	16606	125	226	
16510	46878	A	16607	194	547	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16511	46879	A	16608	2073	2338	
16512	46880	A	16609	1127	1282	
16513	46881	C	16610	1	2094	
16514	46882	A	16611	523	706	QHPLPNPCCHQPFHLCLRR*TL HCLRQQ*WPPLRQLPGKIMLIL LRSH PQHPCLLLDLQLD
16515	46883	B	16612	190	805	
16516	46884	B	16613	90	2812	
16517	46885	A	16614	44	216	RCRRRLIPHPRRLSPVVIRRIQVP Q/VQPGAGPSRPGHTRDPIGAA AAHCPCPGDSGAH
16518	46886	A	16615	1	1107	MTEEPLQALVLSAVLLYQEAY VRRSLTALGLDTFANFAHFSEM QPLSDAPCGLVTGVTRPLVAYS VEVGGFTIICGLSLASGNISGWC QLYLLLTQCRRGAATLWDSGM GGGRQSSRQTSVPRWTLDSKCI PGPKLTTRPQMDTKALGGQQA HVEHQTHEDIRPQVDTQAPGG HKALGEQQDPVGHQASVGYSP QVPQDSLGLAGQATPEIPLG LQLHTVLVQEIQELIEAQTRAP GPCAEVRALPAPAAEPEPAWEE APPERALELEGAPAKDQTNEEL PEITA/PYC/EPLALTLELKAWLE RKVGGRGADQHSPSQQLPCCP*S WARWQTCRQRAGHLAWPPVP RCREASLIH*NHSPAAAGPFILL
16519	46887	A	16616	1	792	
16520	46888	A	16617	1	963	
16521	46889	A	16618	1	378	
16522	46890	A	16619	1	494	MKPRTLAVSVTVLKGGVSRVC SFWCSDVFRVSSFVWVRGLAD SGVKLRTFVSVTPLKAARLEL FVPPGGFVVSLASGVKLQPFV SVTAHKGSVDPKSEKQDQLLQ RGKEQSYHTGEGHPSRLP/PAG SGSLLLFSYLAPPTSC*LVQPSG LF*QGADWCIYNP
16523	46891	A	16620	137	262	

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16524	46892	A	16621	1	2786	EVSLREATQRKLRRFSELRGKL VARGFWDIVAITAADEKQELA YNQQLSEKLKRKELPLGVQYH VFVDPAGAKIGNGGSTLCALQC LEKLYGDKWNSFTILLIHSDEW KKKVSESIVITIERLEDDLPIKE KELTELNRNIFGSDEAFSKVNLN YRTENGLSLLHLCCICGGKKSH IRTLMLKG\LRPSRLTRNGFTAL HLAVYKDNAELITSLHSGADI QQVGYGGLTALHIATIAHLEA ADVLLQHGANVN
16525	46893	A	16622	174	722	
16526	46894	A	16623	1	1554	
16527	46895	A	16624	1	843	
16528	46896	A	16625	2	745	ECWDGEHDIETPYGLLHVIRG SPKGNRPAILTYHDVGLNHKLC FNTFFNFEDMQEITKHFFVCHV DAPGQQVGASQFPQGYQFPSM EQLAAMLPSVVQHFGFK\YVIGI GVGAGAYVLAKFALIFPDLVEG LVLVNIDPNGKGWIDWAATKL SGLTSTLPDVLVLSHFSQEELVN NTELVQSYRQQIGNVVNQANL QLFWNMYNSRRDLINRPGTV PNAKTLRCPVMLVVGDNAPAE DGVVECNK
16529	46897	A	16626	3	949	
16530	46898	A	16627	1	633	
16531	46899	A	16628	2	1324	
16532	46900	A	16631	1	591	
16533	46901	A	16632	138	832	
16534	46902	A	16633	55	586	IFVHPTPAASTMPSKFDPNEIKV VYLRC TGGEVGATSALAPKIGP LGLSPKKVGDDIAKATGDWKG LRITVKLTIQNRQAQIEVPSAS ALIIKALK\EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHSLAR ELSGTIKEILGTAQSVGCNVDG RHPHDIIDDINS GAVECPAS
16535	46903	A	16634	1	735	
16536	46904	A	16636	3	346	
16537	46905	A	16637	57	649	GPRRAYGGRMAGGGGDLSTRR LNECISPVANEMNHLPAHSHDL QRMFTEDQGVDDRLLYDIVFK HFQR\NKVEISNAIKKTFPFLEG LRDRDLITNKMFE DSQDSCRNL VPVQRVVYNV LSELEKTFNL PV LEALFSDVNMQEYPDLIHIYKG FENVIHDKLPLQESEEKEREERS GLQLSLEQGTGENSFRSLTWPP

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16538	46906	A	16638	1	1665	
16539	46907	A	16639	348	1534	
16540	46908	A	16640	1	627	
16541	46909	A	16641	1	1343	
16542	46910	A	16642	76	479	IRAVSRSRERPGSRSRYLQAC*G GGAFFGP*SAEISRLVRSNHLGG YSCT/EGGGGCRKGSCLLQHSC LLWHSCLLPASKNTVCSKDLG GCSCCTQESRAPACSWSPRTQGG SASSHDLGSCRNAWETPSRQLG RSW
16543	46911	A	16643	130	675	
16544	46912	C	16644	118	420	
16545	46913	A	16645	1	987	
16546	46914	A	16646	1	494	
16547	46915	A	16647	360	1510	
16548	46916	A	16648	375	2187	VTAAAAATAMAESGESGGPPG SQDSAAGAEGAGAPAAAASAE PKIMKVTVKTPKEKEEFAPEN SSVQQFKEEISKRFKSHTDQLV LIFA\GKILKDQDTLSQHGIHDG LTVHLVIKTQNRPDHSAQQTN TAGSNVTTSTPNSNSTSGSATS NPFGLGGLGGLAGLSSLGLNTT NFSELQSQMQRQLLSNPEMMV QIMENPFVQSMLSNPDLMRQLI MANPQMQLIQRNPEISHMLN NPDIMRQTLELARNPAMMQEM MRNQDRALSNLESIPGGYNALR RMYTDIQEPMLSAAQEQFGGN PFASLVSNSTSSGEGSQSR TENR DPLPNWAPQTSQSSSASSGTA STVGGTTGSTASGTSGQSTTAP NLVPGVGASMFNTPGMQSLLQ QITENPQLMQNMLSAPYMRSM MQSLSQNPDLAAQMMLNNPLF AGNPQLQEQRQLPTFLQQM QNPDTLSAMSNPRAMQALLQI QQGLQTLATEAPGLIPGFTPLG GALGSTGGSGTNGSNATPSEN TSPTAGTTEPGHQQFIQQMLQA LAGVNPQLQNPEVRFQQQLEQ LSAMGFLNREANLQALIATGG DINAAIERLLGSQHHSISVS
16549	46917	A	16649	269	440	
16550	46918	A	16650	469	746	RLNLPGPLCAGTSILFAVLMEAI GVSCIRQAGGGHVASHIY*GLM /PALAL*DTEPRNPSALPETCLC GSGPQSQMGHQTSHLLSSPGTG LSF
16551	46919	A	16651	1	1026	

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16552	46920	A	16652	719	906	
16553	46921	B	16653	1	1971	
16554	46922	A	16654	200	239	
16555	46923	A	16655	109	177	
16556	46924	A	16656	1	1542	
16557	46925	A	16657	1	453	
16558	46926	A	16658	2	487	
16559	46927	A	16659	1	1260	MEDAEGTVTLAVTLVARDLN CIQPQTGPSGGIPEESIVIIGDVSS MHVIAPEDLPVGQDVEVEDSDI DDPDPVRALPLQIHACGRVGE AHDDWSEGGDPAADTLIDPSQ DARYLKCEGMQAPHNSNPVAQ KTEISYHIWIARIPREKSGKVTG TLCDLLKDLTVIHSIPKQGCS GLGVLVQGTFFQPGNTDTCTC QVSAVEGKGEGLMQLASLSRR VTIWAYGDSQERDLKTQLEKIT AIKDMKEMQEKEYRIMEKAHS RQRKQHHKGPERKEQAAIFAV LQPPLVITRQTGSGVDPQKTPA DLQKRCRTVRRKTSQKAVAS TLTKRITTQKLNADHNSSPTR EQNCTENEFDELTEVGFRRWVI TNSELKEHVLTOCKEAKNFDK RLEELLIQITSLEKNISDLME L*S FALSFCVVILFVNVDATAFCWL VFLLTVRHLFCRSAGVFWGSTP DPVCLVITSGGCRTAKIAACSFL SGPLWCCFLCLEWAFSILYSFS CISFMSLIAVIFSNWVLRSL
16560	46928	A	16660	1	799	
16561	46929	A	16661	1	969	MHVIAPEDLPVGQDVEVEDNDI DDPGQAKKTMEEQWTLVSLLS TSQQQGPVPPGSTASSATDKLS RWELTLLYSTTLFLAREAFRA CLSGGTQRDWSQTLNLLWLT V PLGVFWSLFLGWIWLQLLEVPD PNVVPHYATGVVLFGLSAVVE LLGEPFWVLAQAHMFKLKI VI AESLSVILKSVLTAFLVLWLP H WGLYIFSLAQLFYTTVLGLCY V IYFTKLLGSPESTKLQTLPS RIT DLLPNITRNGAFINWEEAKLAW GFFKQFFLKQILTEGGRYVGG HFLNVLNFGDQGVYDIMNNLG SLVARLIFQPIESFIYS
16562	46930	A	16662	1	1665	

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16563	46931	A	16663	1	1521	MDVSSPPCVDGVSILPPLLIPRQ TGSGVDLQQNPTDLQLRVLT KRKTNKQKGHPHQNSICTSPSS KTKEYTFFSVQHHHTYSKIDHIV GSKAVLSKRKTIEIITNCLPDHS AIKLELRIKKLTQNHKTTWKQN NLLLNDYWVHNKMKAEIKMFF ETNKNKDTTYKNLWDTVKAV CRGKFIALNAHKRKQERSKIDT LTSQLEKEKQEQTTHSKASRRQ EITKIRAELEKETQKTQVKIHES RSWFFKINKIDRPLAGLIKKR EKSQKDAIKNDKLDITDPTET QTTIRDYHKHLYAIKLENLEEM DKFLDTYTLPRLNQESLNRPTG SEIEAIINSLPTKKKYRTRRIHSR ILSEVQGGAVLEVLAIRAEK EIKCIQLGKEEVKLSLFADDMIV YLENPTVSAQNLLKLISNFSKVS RYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKED/N KWKSIPCPRIGRINIM
16564	46932	A	16664	2	2315	
16565	46933	A	16665	1	912	
16566	46934	A	16666	1	912	
16567	46935	B	16667	199	619	
16568	46936	B	16668	64	1815	
16569	46937	A	16669	1	239	
16570	46938	A	16670	1	242	FREDGKTACGHEPSPVLLGLRL GLQPWG*GWGCSHGAGSAPDL VAGSAHSCGLWLPGLHHHPA QCLPALLCGHLCLSVQDQQNG LLGR
16571	46939	A	16671	58	505	ASSRTRPSCTLARGRRWFPQPL SGRQRQRGGRRGSRVG/YGTA QNSTLTSPAASASEATVSGHW PSTAPCCV\PAGAGSATMWRSP A*AACGSAAWTSTWSRRSPGP GAAAGYGGVRTFCQAGLTR/L ANRSTAGLCGWGLTLSCRETEL
16572	46940	A	16672	242	2952	
16573	46941	B	16673	474	2690	
16574	46942	A	16674	97	451	
16575	46943	A	16675	667	893	

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16576	46944	A	16676	3	639	RIRVHPTPAAFMPPKFDNPNEIK VGYL RCTGGEVGATSALAPKIG PLGLSPKKVGGDDIAKATGDWK GLRITVKLTIHNRQAQIEVAPSA SALIHKALKEPPRDRKKLKILKL SGNITFDENGNICSTDMR/HRSL SRELSGTTKEILGTAQSVGCNV DGRHPHDIIIDDINSENDKQPRKS KMRTSFSPQIPGHEHFHYLLLL QHVHCQLALTL
16577	46945	A	16677	350	984	VYLEVAPGGESRLPLSALGPQR IGPPGSCLPKKSWVNDICQRQP G\DWKGP*GLQVKLTHSRTGQ APDCTRVP/VLPSCP*FIQSPSRE PPKRPEKKPEKTFKHQLGIFTFL NEICSTLLRQMR\HRSLSPEKLS\ GTPLKEIPGGLPQSSWAGNV*W AAIPHD\IDDIIQQWVLWKCPAV SDIFIVTVGVKGGPPSVFTEISW EVLEMVTGGVG
16578	46946	A	16678	252	964	
16579	46947	A	16679	1	182	
16580	46948	A	16680	275	639	
16581	46949	A	16681	376	418	
16582	46950	A	16682	1135	1591	
16583	46951	A	16683	3	420	AAKEIEVGGGRKANKSFQKIQV RLVRELEKKFSGKHVVFIARQR ILPKPTRKSRTKNKQKRPRSRTL TAVHDAILEDLVFPSEIVGKRIR VKLDGSRLIKVHLDKAQQNNV EHKVETFSGVYKCLTGKDVNF EFPEFQL
16584	46952	A	16684	1	879	
16585	46953	A	16685	2	691	HEEKAMFSSSAKIVKPNGEKP\ DEFESGHLPLGFLELE\MNSDL KASAQGT*IITAS*RKLKVGGS ESLFH*SFVPRSLKLKTFPQKNP KVRA*LRRIGKKKVPVGKAMS VLYPPSEGEFLPLSPTSEKARTK K*AKSRPPGARTLDKLVH\DAH PLRDFGPFPSGNFWAKRIPRNL DGQPGSIKVPFWTKAQNNQCW NTRVETFFLVSYK\KLTGQGC*F LEFPRVFNC

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16586	46954	A	16686	1	452	TLLVIPRKMRS AVELQQTSTD LQLRDLTVRKKTNKRKATASTS QKGHLHQNPICRSPTSKTKEVG FRRSVITNFSSELKEDVRTYHKE AKNLENRLDEWLTRINSVEKTL NDLKELKTMARDLHDactsfn RRFDQVEERVTVTEDQIN*QTE SNSINFTRKSSTPKPHLRSPTSK TKEVGFRRSVITNFSSELKEDVR TYHKEAKNLENRLDEWLTRINS VEKTLNDLKELKTMARDLHDA CTSFNRRFDQVEERVTVTEDQI
16587	46955	A	16687	1	618	
16588	46956	A	16688	280	353	SCNSIFARSVRACCS*VASSSFC C
16589	46957	A	16689	1	459	IKYSSPMKSTFVDPVDPVAVAV IYCLAAGLVIRIPFFQLVPLKEE KMVLLNMDYYEMASLSLVTH RNEAPFSGRVRSSLPATEQSWM ENDFDKLTEVGFRRSVITNFSSEL KEHVLTHHKEAKNLEKRLDKW QTRINSVEKTLNDLMELKTMA* EEKMVLLNMDYYEMASLSLV HRNEAPFSGRVRSSLPATEQSW MENDFDKLTEVGFRRSVITNFS ELKEHVLTHHKEAKNLEKRLD KWQTRINSVEKTLNDLMELKT
16590	46958	A	16690	2	403	LALSGEMTLVLFMLLAGGWVT HDKPEPMPRAATSGGTRKGKT KAALKDLIATWKEVCVSSPATE QSWMENDFDELTEVGFRRSVIT NFFKLKEYVLTHHKEAKNLEK MLDEWLTRINSVEKTLNDLME LKNMA*ELTEVGFRRSVITNFF KLKEYVLTHHKEAKNLEKMLD EWLTRINSVEKTLNDLMELKN
16591	46959	A	16691	1	676	
16592	46960	A	16692	1	1965	
16593	46961	C	16693	1	3075	
16594	46962	A	16694	78	152	CAAGFGLPVFY*GFLHRC SLGIL V
16595	46963	B	16695	1	904	

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16596	46964	A	16696	1	2026	EQEASYGRDAFAKAIYERLFC WIVTRINDIIEVKNYDTTIHGKN TVIGVLDIYGFEIFDNNSEQFCI NYCNEKLQQLFIQLVLKQEE YQREGIPWKHIDYFNNQIIVDL VEQQHKGIIAILDDACMNVGK VTDEMFLALNSKLGKHAHFSS RKLASDKILEFDRDRFRIRHYA GDVVYSVIGFIDKNKDTLFDQDF KRLMYNSSNPVLKNMWPEGKL SITEVTKRPLTAATLFKNSMIAL VDNLASKEPYVVCIKPNDKKS PQIFDDERCRHQVEYLGLLENV RVRRAGFAFRQTYEFLHRYK MISEFTWPNHDLPSDKEAVKKL IERCGFQDDVAYGKTKIFIRTPR TLFTLEELRAQMLIRIVLFLQKV WRGTLARMRYKRTKAALTIIR YYRRYKVKSYIHEVARRFHGV KTMRDYGKHVKWSPPKVLRR FEEALQTIFNRWRASQLIKSIPA SDLPQVRAKVA AVEMLKGQRA DLGLQRA WEGNYLASKPDTPQ TSGTFVPVANELKRKDKYMN VLF SCHVRKVNRFSKVEDRAIFV TDRHLYKMDPTKQYKVMKTIP LLQLTCLN\VSNGKDQLVVFHT KDNKDILVCLFSKQPTHESTRIGE LVG\VLVNHFKSEKRHLQV\NV TNPVQCSLHG\KKCTVSVETRL NQPPDFTKNRSGFILSVPGN
16597	46965	A	16697	1	1665	
16598	46966	A	16698	1727	1908	FLFFYIC*RELYFQLCGQFWNK CNVLLRRMYILLIWGGEFCRYQ LGLLGAELNSVPGYHC
16599	46967	A	16699	1	384	
16600	46968	A	16700	1	636	
16601	46969	A	16701	1744	2283	
16602	46970	A	16702	194	368	
16603	46971	C	16703	62	205	
16604	46972	B	16704	1	1257	
16605	46973	A	16705	1	1077	

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16606	46974	A	16706	1213	1228	AQN*QTQRTSTPKPHL\SSPSTK TKENDFDELREEGFRRSVITNFS KLKEDVRTHRKEAKNLEKRLD EWLTRINSVEKTLNDLMELKT MAQELRDTYTSFSSRFDQVEER VSVIEDQMNDMKREEKFREL/K RVQRNEQSLQEIWVYVKRTNL RLIGVPEKIQTITREYYKHLN KLENLEEMDKFLDTYTCPRLN QEEVESLNRPTGSEIEAIINSLP TKKVQDQADSQPNSTRVFKTV CISSLGHTTASADTQDVCQLPV TSLLEQGLSSKSAGFLDYAVQR LWLLGTEPL
16607	46975	A	16707	33	263	
16608	46976	A	16708	204	1756	
16609	46977	A	16709	760	821	TMRTHGHRKGN*QR/R**PEST KNSNKFRKNQTTPSKREWMK LETILSKLSQGQKSKHRMFSLI SGN*TMRTHGHRKGNITHWGL LWG
16610	46978	A	16710	1	879	
16611	46979	A	16711	311	514	KNAHHQWPSKKCKSKLQ*DTIS HQLWQSLKSQETTGTMRKME TITLSKLSQGQKSKHCMFSLIGG N
16612	46980	A	16712	24	1268	AGLCAARARMRLFRWLLKQPV PKQIERYSRFSPLSIKQFLDFG RDNACEKTSYMFRLKELPVRL ANTMREVNLLPDNLLNRPSVG LVQSWDMQSLELL*YENKSPE DPQVLDNFLQVLIKVRDRHND VVPTMAQGVIEYKEKFGFDPFI STNIQYFLDRFYTNRISFRMLIN QHTLLFGGDTNPVHPKHIGSIDP TCNVADVVKDAYETAKMLCE QYYLVAPELEVEEFNAKAPDKP IQVVYVPSHLFHLFELFKNSM RATVELYEDRKEGYPAVKTLV TLGKEDLSIKISDLGGGVPLRKI DRLFNMYSTAPRPSLEPTRA A PLAGFGYGLPISRLYARYFQGD LKLYSMEGVGTDAVIYLKALSS ESFERLPVFNKSAWRHYKTTPE ADDWSNPSSEPRDASKYKAKQ
16613	46981	A	16713	175	465	
16614	46982	A	16714	240	381	FFLSFPLCQSS*NQNLLPW/ICA KVCSFTPEVSKTTNPLEGRNSG HI
16615	46983	A	16715	268	1524	
16616	46984	A	16716	1	378	

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16617	46985	A	16717	708	987	IQLPGHRSQGGVAGASHTDARQ QDPGNHSHSDFVRHSHSLPCLER QDRRSAGHNGSATVPGTEACG RAYKAPAGHYHSGAGQSLPAA SHRSFSSP
16618	46986	A	16718	1	2052	
16619	46987	B	16719	1	606	
16620	46988	A	16720	1	541	QHQRKQKRQLRAQQNLSWEEI AKEYQNEEDSLGGSRVVVCDI NKEMLKVGKQKALAQQGYRAG LAWVLGDAEELPFDDDKFDIYT IAFGIRNVTHIDQALQEHRVL KPGGRFLCLEFSQVNNPLISRLY DLYSF\RVIPVLGEVIAGDWKSY QYLVE\SIRRFPSQE\KFKD\MIE DAGF\HKVTYESLTSG\VAIHSG FKL*FLCLEFSQVNNPLISRLYD LYSFQGHPCPRGRHRWRLEVLS VPCREVSEGFRLRKEFKDHDRR CRLSTR
16621	46989	A	16721	526	933	
16622	46990	A	16722	191	468	
16623	46991	A	16723	2	677	GKVHVLERRGFHRTEMHLQKI LLLPLVSSSSSSDP/STLSVSALV RMFSSADE*SVSEASSSEPSSSFS RRSSCSFGSEPSFASFSFSSFPDL ASLSSVFLLFRAFS\SSHVM*WL PSSS*VGS/STSARAQLPSYVPSF SVKTKSGLKSALRFFPKAFCL PSTMGPPSSSSSPESDSALHRHLV ILDVWLQIKPRVRKPCCRRSHF RKRAQPAVRPLTFRSLLVVL
16624	46992	A	16724	31	187	
16625	46993	A	16725	215	947	
16626	46994	A	16726	1	378	
16627	46995	A	16727	2	7567	GGGGARRQRRGDAGGGAETAP SEILSPAEEERSGRSETLRRGT AAGRMATVVVEATE/PEPSGSI ANPAASTSPSLSHRFLDSKFYLL VVVGEIVTEEHLRRAIGSIELGI RSWDTNLIENL\DQELKLFVSR HSARFSPEVPG\QKIL\HHRSERF *ETV\VLQ\PFLMEGSSGTEVRL MITDAARHKLLVLTGQCFENT GELILQSGSFSFQNFIEIFTDQEI GELLSTTHPANKASLTLCPEE
16628	46996	A	16728	101	365	VITGQPNPTNPNLQATPDIQGT ARLGPA/LHPRGIIPFIGHQSA/R PHAPAPANPNKRTLFRPPPLSP SPEPPGSGQGAGLGARPALP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16629	46997	A	16729	1170	2847	VASC*ENACKQNQRQKPCDYL NRCKRGLWQNSTTLHAKNSQ* TVLYKTIKFQLEKTTLKFIWNQ KRAHIAKSILSQKNKAVGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNHLIF DKPDKNKKWGKDSL FNKWCW QNWLAICRKLKLDPFLTPYTKI NSRWIKDLHVRPKTIKLTLEENL GNTIQDIGTGKDFMSKTPKAM ATKDKIDKWDLIKLSFCTAKE TTIRVNRQPTKWEKIFTT
16630	46998	A	16730	79	536	
16631	46999	A	16731	232	771	
16632	47000	A	16732	3	339	
16633	47001	A	16733	279	416	
16634	47002	A	16734	1	1760	
16635	47003	A	16735	309	1718	
16636	47004	A	16736	10	417	IAIMNDTVAIRTRKFMTNRLLE RKQMVIDVLHPGKATVPKTEIL EKLAQMYKTTDPVIFVFGFRTH CGGKTTGFGMIYDSL DYA EK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
16637	47005	A	16737	96	609	EKFMTNRLTSGETKWVI*CPFT PGRRTVP*AQKIRAEKLAQNVQ RPHPDVIFVFGFRTHFGGGKTT GFGMIYDSL\DYAKEKMNPKH RLA\RHGPGMEEGKRPSKKN GKER\KNQN*RKVQGGLAKGP LLGAGQKEEMKCLGSELEIGSQ PKELKVLPMMLAVATVDFSQE
16638	47006	B	16738	1	1041	
16639	47007	A	16739	3	447	VSVPFIFIWLTCKSFLKFDLKS TNVLQSL/GKFQSEVSKRQKLA TVFSSFTSTGLCQGSVAFISRC PLASGSDSVWRGGSVFFSFRP* RLMISLLGSCVSHQFPEKLEF** KKMPYKIPTAHHQQQDDQQRG HEHKQSQPDVPHLG
16640	47008	A	16740	1	2385	
16641	47009	A	16741	1	639	
16642	47010	A	16742	1	993	
16643	47011	A	16743	127	426	CTDKITLVFGV*MLTPKPKD/CD DSAV*ELLWLTNQLSACVVHP GLYHLHVRSIWIPYRCLFSTMC GVCQTCTVAMQLDCLADSFNA VFKLTEAAGHMAR

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16644	47012	A	16744	3	374	SLRLQFYKISFQTQDQANKLS DSDASHLHPLAPCSEPTRTNVH TKLPRERPQSQIASPYLPPCPE RLKKQTNKKKNW*EPSPHILPP RNAAAHTGQSRASKSLPAPPPT VSPRPRPGAPGT
16645	47013	A	16745	16	253	
16646	47014	A	16746	163	588	TFHAVLHIENAGYFNSIPFFRIL NHNPLTTVEDPYLFLKLPALKYL *VL*YSHESRDDLYSF*IFHQRL SILHLG*NVIAKF*LSY*KKVIGE EKN*EDV*WSRQPAGEREQC*R THIDLE/PCRHMEEYYLTKKAK GKRCSLF
16647	47015	A	16747	2	363	GTSQTLRLSLASACIFQPKVRL SREEIPLNLNY*SVSPNSNP NHL YSRHTILTAMLTQLGTCVLLPI GLLVYPNCPSPPTGLQVTPFLPS PCGSGWPASFTYSSNRFTTNLL FCVFIL
16648	47016	A	16748	1028	1621	
16649	47017	A	16750	1	112	LGNTWG*QPCRLKIWLSLEFT KINVIRHMKKFKRL
16650	47018	A	16751	91	597	LKNRRRSRPSIRQSIGSTSVSRW LTSFTYLDHTADVQ*V*REFIP LKPRQ*ED*MFQSWLHAWGDT LEEAFEQCAMAMFGYMTDTGT VEPLQTVETQGGDLQSLLFH FLDEWLYKFSADFFIP/GWGEE FSLSKHPQGTEVKAITYSAMQV YNEENPEVFVIIDI
16651	47019	A	16752	226	668	IYFFRLHAWGDTLEEAFEQCA MA\MFGYMTDTGTVEPLQTSRS \KTQGDDLQSLLFHFLDEWLYK FSADEFFIPREVKVLSIDQRNFK LRFN\GWGEEFSLSKHPQGTEV KAITYSAMQVYNEENPGSFCD HWTFTTQIKRLPTGKK
16652	47020	A	16753	3	942	
16653	47021	A	16754	3	419	SLYHNSSQKRHWTFSSSEQLAR LRADANRKFRCKAVANGKVLP NDPVFLEPHEMTLCKYYEKRL LEFCSVFKPAMPERSV\LTCAFL ACKVDEFNVSNPQFVGNLRESP LGQEKALEQILEYELLLIQLNF HLIVHN
16654	47022	A	16755	312	537	
16655	47023	B	16756	209	1381	
16656	47024	A	16757	1	927	
16657	47025	A	16758	1	3987	
16658	47026	A	16759	2	175	

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16659	47027	A	16760	2395	2700	
16660	47028	A	16761	2	1118	
16661	47029	A	16762	26	1205	
16662	47030	A	16763	1	1594	
16663	47031	A	16764	1	595	
16664	47032	A	16765	1	1029	
16665	47033	A	16766	1172	1364	
16666	47034	A	16767	253	389	
16667	47035	A	16768	489	855	
16668	47036	A	16769	2	401	
16669	47037	A	16770	415	694	EAKLHLNLCDSWLCCPTKGK RKQALEVLNILGPFLLAPFWIAK SYFFTSPTKTQVSSL*FLRYKRIK LQCRPKTCTNPSRTRSCALPGR FIPPF
16670	47038	A	16771	1	765	
16671	47039	B	16772	1	1095	
16672	47040	A	16773	82	311	KANSDVPPFGFGVNLEHLMEAC NS/GTNLLNSKRLNNDICLASH TDVSIARKCCLVVSCLLLRGL SILRSKESHC
16673	47041	A	16774	2	683	
16674	47042	A	16775	1	2703	
16675	47043	A	16776	1	555	DHNSSPAREQ/SSMENKFHELT EVGFRKITSLEKNINDLMELKN TARELREAYTSIKSRIDQAKESI SEIEDQLNEIKCEDKVREKRMK SNKQNFQEIWDYVKRPNLRLT GVPESDRENGTKLENTLQEIIE NFPNLARQANIQIQEIQRQAQR QSSSRATPIHIIIVRFAKFEIKEKM LRAAREK
16676	47044	A	16777	1	839	
16677	47045	A	16778	1	504	
16678	47046	A	16779	1	2367	
16679	47047	A	16780	1	1566	
16680	47048	A	16781	146	464	VTGWTNYEGNGRWRERSRQLC GCCSRKSSSSWGISLMKGSGAP LRPGRMMWSGFRKCSDTQVM YS*R*LLETMTLASIMR*THTK* NALRKCSALKDCFLGKALTL
16681	47049	A	16782	1	1782	
16682	47050	B	16783	221	1075	
16683	47051	A	16784	1	627	
16684	47052	A	16785	1	1539	

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16685	47053	A	16786	1	1318	LSPVLSLSPDSMSFTTRSTFSTN YRSLGSVQAPSYGARPVSSAAS VYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRLASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNARIVLQIDNARLAAD DFRVKYETELAMRQSVENDIH GLRK\IDDTNITRLQLETEIEAL KEEL\LFMKNHEE\EVKGLQA QIASS\GLTVEV\DAKFIQDLRQ DSWADIR\AQY\DELARKEPRG A*TKYWFSADLRESTTV\VTQ F\AEV\GAA*DDASQSWRTYSPS SLGDPWGFWRKS*RASLEN SLREG*RPAYALT/QMEQASTGI LACTFESELGTDPGAEGQRQAQ EY\EALLNIKVKLEAE\ATYRRL \LEDGEDFNLGDALDSSNSMQT IQKTTTRRIVDGKVVSETNDTK
16686	47054	A	16787	1	253	RVRTLKTSTSTCLYWFENKDS/ DHPERSSP*YMSPSHRYGSLVK ASITKPAFLKTSGRLFTCSSQFC PLISKISDGFSLPPFST
16687	47055	A	16788	1	276	AAAAGPPGPLVMFTYRERVSG LRSVHILRASHTDARLRQEPT ERLQFHSSGLLIRFSRETEPIGV YIKED*EEWAYKMMVFAKSHD LPFAN
16688	47056	A	16789	1	203	LLHTSTKNELWQ*GKRDPLIVF YTQYLF*EKTRK*NQRQAGSL ALGPKPGLRLPGLNPVVENQFI
16689	47057	A	16790	8	361	RGLDGQGGRDGSSSGGGGGGR RRRCLLLAPAPAVIRASGRGP R*DCWRAGCA*AWRPC/RLAR RMWTLRSPLTRSLYVNMTSGP GGPAAAAGGRKENHQVARKR LNVCFTRSVSETA
16690	47058	A	16791	674	1076	VQLFRSAGSRDHHRFLGRGRN KQTKTLYPTPIPCSLKYQRKQN GSLLWTSRMPSSVFPCTLTSPFS LPLRISQTTHPNLRGPSPCKGLG IALISLVRHWLKI*ATSQVQAL WSFSMWMIYFWLPVQKPHASR
16691	47059	B	16792	296	1470	
16692	47060	A	16793	1	334	
16693	47061	A	16794	718	2541	
16694	47062	A	16795	2	406	
16695	47063	A	16796	74	464	
16696	47064	A	16797	159	610	
16697	47065	A	16798	1	273	

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16698	47066	A	16799	1	543	
16699	47067	B	16800	1	873	
16700	47068	A	16801	1	558	
16701	47069	A	16802	27	136	
16702	47070	A	16803	89	363	
16703	47071	A	16804	579	994	
16704	47072	A	16805	129	362	PKIIQPRRATTRFTSIHGWRICPS IPCFPEATINRRRCVKVDSVTCH LLTQR*YKSSKVQERC*SCRIQG QKISDCY
16705	47073	A	16806	878	1811	
16706	47074	A	16807	1	843	
16707	47075	C	16808	19	231	
16708	47076	A	16809	1	1650	
16709	47077	A	16810	3	404	
16710	47078	A	16811	279	428	
16711	47079	A	16812	3	507	
16712	47080	A	16813	1	1128	
16713	47081	B	16814	1	567	
16714	47082	A	16815	3	1206	GSEGQGAGPGGAAATAAAME DEMPKTLYVGNLSRDVTEALIL QLFSQIGPCKNCKMIMDTAGN DPYCFVEFHEHRHAAAALAAM NGRKIMGKEVKVNWATTPSSQ KKDTSNHFHVFGDLSPQITTE DIKAAFAPFGRISDARVVKDMA TGKSKGYGFVSFFNKWDAENA IQQMGGQWLGGGRQIRTNWATR KPPAPKSTYESNTKQLSYDEVV NQSSPSNCTVYCGGVTSGLTEQ LMRQTFSPFG\QIM\EIRVFPDKG Y\SFVRFNS/HMESGRHMAIVSV NGTTIEGHVVKCYWGKETLAD MINPV\QQQNQIGYPQPYGQWG Q\WYGNAQQIGQYMPNGWQV PAYGMYGQAW/SSQGFNSDT VFLAPWDGDPNFGSCNRLQGQ NG\SLLPN\RPSGYRVAGYETQ
16715	47083	A	16816	1425	1564	
16716	47084	C	16817	151	339	
16717	47085	A	16818	67	373	FCDCHHFILMFKSPHIWPVGIFS SWLLCFFWACLHHSLSIALLS TKRYSGLILYFLCSSFEITVSSKS SVSF*RRMVFRNQVLGSRACCC C*GVAAPRPFP

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16718	47086	A	16819	1	799	MGPHWLWLHLALVLLPPSALL LPSCEKGVLRVRFYHEKWIYV HKESTKERHGYCTLGEAFNRL DFSSAIQDIRRFNYVVKPLLPY KFQRLNAITKDRQRSSSGVQLP HAGQPQADPTQDERRQVAGD TPGDPRALAGGGVVDRTYPGS YEASGRPGLQLALAIEDLLRDS AIGCTFCDRCPVGAQRLLAHS LALAAPGAEKREVVKLLLVAY VRRRPGKNLTTQNCQPAAGYI PPGHQ*AASAHARSWKNQQPP PRVLIGSA
16719	47087	B	16820	28	438	
16720	47088	A	16821	366	793	AWVEQSKVLIKEGGIQLLLTIV DTPGFGDAVDNSNCWQPGINYI DSKFEDYLNESQVNRQMPG NRVHCCLYFIAPSGHGPLHN*R LPPSGRIG*YMFVTTWHCLLLR LKPLDIEFTKHLHEKVNIPLIAK ADTLMPEEC
16721	47089	C	16822	228	374	
16722	47090	A	16823	291	604	AWELEKSHLRRGLDPSHNINIR VEPKF*SKYGGVQLLLTIVDTP RFGDAVDNSNCWQPVINYIDIK FEDYLNESRVNRQMPGPNRV Q**LYFIAPSGHGPLHN
16723	47091	A	16824	148	498	
16724	47092	A	16825	1	595	DRPRITGGGKSGTEYPENLPTL KATIENKNSVLNTATKMKDVQ TSTPAEQDLEMA\SEGEQKRLE EYENNPQVKN\QIHSRDDLDD IIQSSQTVSEDGD\SLCCNCKNVI LLIDQHEMKCKDCVHLLKIKNT FCLWKRLIKLDNHCEQLRVKI RKLKNKASVLQKRISKEEIKS QLKHEILELEKELCSLRFAIQQE
16725	47093	A	16826	1	828	
16726	47094	A	16827	1	540	
16727	47095	A	16828	295	460	
16728	47096	A	16829	2	1355	
16729	47097	A	16830	650	1184	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16730	47098	A	16831	725	2368	AVDIIKEIKHPQKHKKLP AFQLR PFPLREETIPCNGVSFPRCEPPCL AEVYMCLNEMLKDEKKGCMN KSGAGENPQERTAQKRKFPSPP HSSNGHSPQDTSTSPIKKKKKP GLLNSNNKEQVKQPLECIETQS KAMTMLTIEQLSYLLKFAIQKM KQPGVRRKLKVPLEQHPDYA EYIFHPMDLCTLEKVGLRQMY GCTEAF LADAK WILHNCIIYNG GEWLRTQIAKVVIKICEHEVCV SQVCPECYLAACQKRDNWFCE PCVSWIYD\SACQPV*WKLVIQ MFLPM/WKADIL/RGEEG*YTSE LIGWL*SLSCDCSAGTSISHPSD SD*RWLTEHEGRRVSWPVNNC YLMSKEIPFSVKKTKSIFNSAM QEMEVYVENIRRKFGVFNYS PF RTPYTPNSQYQMLLDPTNPSAG TAKIDKQEKVKLNFDMTASPKI LMSKPVLSGGTGRRISLSDMPR SPMSTNSSVHTGSDVEQDAEK KATSSHFSASEESMDFLDKSTG QLRAGERGGGPLDTGVSHGCT LGGPKQVSIKQQASVLQDTMN
16731	47099	A	16832	2	164	PSTLRAEAWPP*NGSPVPLASS QASSRSRGPTSCIPRYPVASPE RLPLPTAAA
16732	47100	A	16833	51	498	
16733	47101	A	16834	1	531	
16734	47102	C	16835	257	358	
16735	47103	A	16836	63	193	SGRLAPHTSRRTSANCSDDAKS SDSCSPSRKT*WSGRNTNRIH
16736	47104	A	16837	1	834	
16737	47105	A	16838	258	545	CQNPQILASPSTKDLMLGRNT NKDTLKACLARVVKRRSECSQ KPAS*MCTERNPTSMREVDLE RKYAVLYQPLFD*AVLKLLMQ FMNLRKEGM
16738	47106	A	16839	66	476	
16739	47107	A	16840	1	1362	
16740	47108	A	16841	1	747	
16741	47109	A	16842	522	687	
16742	47110	A	16843	112	861	
16743	47111	A	16844	87	472	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSRK NPRPSLRGPLLTLEFSRLRFREF VYP\EAAGPHHTLARLDEL CRQ WLMPEARSKEQMLELLVLEQF L/SILPDKVRPWVVAQYPES
16744	47112	A	16845	1	393	

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16745	47113	A	16846	621	1099	
16746	47114	A	16847	1	453	
16747	47115	A	16848	209	1175	
16748	47116	A	16849	1	546	
16749	47117	A	16850	187	421	LGESSQ*GSPAPPPTGGCGPATG Q*PLGQSFQRKELAAIFAVSQY SLVPPGMGETEATGIWSRPPA NGNSPTVEWHIK
16750	47118	A	16851	3	1654	
16751	47119	A	16852	166	465	
16752	47120	A	16853	1	558	
16753	47121	A	16854	51	380	RNNLLLLTHHFVLIQFLIPRKET KYYLVITPYSLSNVLSNFFYYS PESLNDTNCYHHEEADTPWR*F LAIFEGLFNIAHQMQNMPFFLL WKQVPETLVIQQQLPRIN
16754	47122	A	16855	3	550	
16755	47123	A	16856	1	462	
16756	47124	B	16857	1	2811	
16757	47125	A	16858	3	514	ASGTAPEIQARPTRPRRKRRRK LLPL/TKAEAKAKALKAKKAVL KGVHSHKKKKKIRTSPTRRPKT LRLRRQPKYPRKSAPRRNKL DH YAIKFPLTTESAMKKIEDNNTL VFIVDVKANKHQIKQAVKKLY DIDVAKVNTLIRPDGEKKAYVR LAPDYDALDVANKIGII
16758	47126	A	16859	73	396	FFQFSPKKNCSVWWNC\AEVLL KYKTGETNDFELLKNQLLDPDI KRLPWLNRSTVVEEYLAFLG NLVSAQTVFLRPCLSMIASHFV PPRVIIKEGDVDVSDSDDDD
16759	47127	A	16860	132	357	YVSKFAGRLSSSSSESETSTSPS LMITRGGTKWGSNHAETRSEE NSLC*YKITKKSQILFHYCFDFY STKAISI
16760	47128	A	16861	380	597	
16761	47129	A	16862	179	280	QRDIKSCVQILQWEGSTRPFTN E**YMANVRNS
16762	47130	A	16863	2	175	
16763	47131	A	16864	178	374	
16764	47132	A	16865	386	2120	
16765	47133	A	16866	887	1104	

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16766	47134	A	16867	1	708	MEVAALEHLDHRLREKVKQQN ALRHQVVLRQRRLEELQLQHS LRLEMAEAQNRHTEVAKTMR NLENRLEKAQMKAQEAHITS VYLQLKAYLMDESLNLENRLD SMEAEEVVRTKHELEALHVVNQ EALNARDIAKNQLQYLEETLVR ERKKRERYISECKKRAEEKKLE NE/LHGAQADPGSDLNPRADPP RAPAATVRRHHPGQPACQGGG AAAALHVPDGGDLWQGQGR HWH
16767	47135	A	16868	1	1327	
16768	47136	A	16869	1	1776	
16769	47137	A	16870	1	397	
16770	47138	A	16871	1	1974	
16771	47139	A	16872	1	336	
16772	47140	A	16873	3	661	GRGGHNFAPNLTARSAVTSGL GGPPAAVMVGS LN CIVAVSQN MGIGKNGDLPWPPLRNEFRYF QRMTTSSVEGKQNLVIMG\KK TWFSIPE/RRNRPFKG*EFNLVL SRELQGNLPQGAHFLSRSLDDA LKLTEQPELANKVGMVWIVG GSSIVKESMNHSSSLKLFVTRII QDFESDTFFPEIDLEKYKFLPEY PGVFFDVQEEKGIKYKFEVHEK
16773	47141	A	16874	38	755	ALKTCNVNQPDAKDNIAGSSGH LRTLSPVVSRSCLEEEERRRRR RMKRRQRSRRRRSRRRRMRRR RRSRRRRRMKRRKRRRRMKR RSSFILMYFFMLLLSGIPLLYME VIMGQWLHVDNIRVWKQLVP WLCMSY/SSQSVCASVSLYNS TIISWNFFYSFAHPLPDHCPV KNISVTDWAHQYFLYHTTLHA SDHSEAAEALVPNRS LGCLLG RDHRDLDFKPEIRRGHTGGAR
16774	47142	A	16875	1	1830	
16775	47143	A	16876	2	1142	
16776	47144	A	16877	1	435	
16777	47145	A	16878	1	963	
16778	47146	B	16879	247	1092	
16779	47147	A	16880	1	1653	
16780	47148	A	16881	1	2268	
16781	47149	A	16882	301	555	
16782	47150	A	16883	1	630	
16783	47151	A	16884	731	834	
16784	47152	A	16885	1	2277	
16785	47153	A	16886	45	2446	
16786	47154	B	16887	625	696	

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16787	47155	A	16888	193	315	WPGGGYSLLCFWCPLSFAGAA G/W*PPPGHH*PYSPKQEHYRT NSDTLIFLSSRTLVLQGS*GIKV AGSEGPKYNE*PRNPVLPSLCL HLFGC
16788	47156	A	16889	1	588	
16789	47157	A	16890	2	229	
16790	47158	A	16891	1	502	
16791	47159	A	16892	516	576	
16792	47160	A	16893	144	435	
16793	47161	C	16894	1	996	
16794	47162	A	16895	424	632	
16795	47163	B	16896	446	1944	
16796	47164	C	16897	207	470	
16797	47165	A	16898	1	396	
16798	47166	A	16902	1	585	
16799	47167	A	16903	141	906	
16800	47168	B	16904	99	276	
16801	47169	A	16905	1	756	
16802	47170	A	16906	1	383	
16803	47171	A	16907	1	582	
16804	47172	A	16908	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPiWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGPAlFCR* LLSF*ETALGLLLGFGGN*TFDY
16805	47173	A	16909	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVIFPVPECRIG RDILSSWQNPHGTSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY
16806	47174	A	16910	232	633	
16807	47175	A	16911	1	1677	
16808	47176	A	16912	328	381	LLKLQH*MQSPYLVGPSQ
16809	47177	A	16913	3	811	
16810	47178	A	16914	1	1125	
16811	47179	A	16915	1	1191	
16812	47180	A	16916	113	485	
16813	47181	A	16917	1	357	
16814	47182	A	16918	12	398	
16815	47183	A	16919	498	595	TEMASTTTCT/RFHDEYQLFEEL *KGAFSVNGT
16816	47184	A	16920	5	367	

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16817	47185	A	16921	190	2005	VLYPLHLGTGTGKGAGGASSG EEGSEARRRRRIGGLWGRRPHA TLSGHLPSRPAPAHTPSRASYFR TRKVRAALGDSAAGPVPGLAA RLLASGPSRSQPGHSPGPEMAS TTTCTRFTDEYQLFEEELGRGAF SVVRRCKMKTGQGYAAKIINT KKLSARDHQKLREARICRLK HPNIVRLHDSISEEGFHYLVFDL VTGGELFEDIVAREYYSEADAS HCIQQILESVDHCHLNGIVHRD LKPENLLLASKSKGAAVKLADF GLAIEVQGDQQA WFGFAGTPG YLSPEVLRKDPYGKPVDMWAC GVILYILLVGYPFWDEDQHRL YQQIKAGAYDFPSPEWDTVTPE AKDLINKMLTINPAKRITASEAL KHPWICQRSTVASMMHRQETV DCLKKFNARRKLKGAILTTML ATRNFSAAKSLLKKPDGVKEST ESSNTTIEDEDVKARKQEIIKVT EQLIEAINNGDFEAYTKICDPGL TAFEPEALGNLVEGMDFHRFYF ENALSKSNKPIHTIILNPHVHLV GDAAACIAYIRLTQYMDGSGM PKTMQSEETRVWHRRDGKWQ NVHFHRSGSPTVPIKPPCIPNGK ENFSGGTSLWQNI
16818	47186	A	16922	1	288	
16819	47187	A	16923	318	458	
16820	47188	A	16924	1	578	
16821	47189	A	16925	803	1068	
16822	47190	A	16926	1	660	
16823	47191	A	16927	2	325	TSENNGPKR*IHSTESLYLLQ GSVVADHDYIGLPEIPGAYQA NILVEDATIGIVDNELLTSSKDR ELLEYRNTKISPLIDHSSLEKQ TFSLLDSSNQVLEYLS
16824	47192	A	16928	156	573	
16825	47193	A	16929	405	599	GLEPPQKPLVTSILQANPVPLP CGNSQSR*TSTRCWYEHLCQCTQ SHLQMQQYHEAYQSACALA
16826	47194	B	16930	1	1676	
16827	47195	A	16931	1	1125	
16828	47196	A	16932	27	818	
16829	47197	A	16933	1	4986	
16830	47198	A	16934	1	4401	
16831	47199	A	16935	153	370	SVLETCMSTAFPVSCHSSFKTA VLRISLS*ISAGGGPIDLFSQCHP SSSTGVSSINHRGSWDTPGQSL VVICL

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16832	47200	B	16936	47	501	
16833	47201	A	16937	49	1714	
16834	47202	A	16938	1	999	
16835	47203	A	16939	140	2029	FAARAGPGGSRRARRGNKWAR MPYEIKKVFASLPQVERGVSKII GGDPKGNNFLYTNGKCIVLRNI DNPALADIYTEHAHQVVVAKY APSGFYIASGDVSGKLRIWDTT QKEHLLKYEYQPFAGKIKDIAW TEDSKRIAVVGEGREKFGAVFL WDSGSSVGEITGHNKVINSVDI KQSRPYRLATGSDDNCAAFFEG PPFKFKFTIGDHSRFVNCVRFSP DGNRFATASADGQIYIDGKTG EKVCALGGSKAHDGGIYAIWSW PDSTHLLSASGDKTSKIWDVSV NSVVSTFPMGSTVLDQQLGCL WQKDHLSSVLSGYINYLDNRN NPSKPLHVIKGHKSIQCLTVH KNGGKSYIYSGSHDGHINYWD SETGENDSFAGKGHTNQVSRM TVDESGQLISCSMDDTVRYTSL MLRDYSGQGCVVK\LD\VQPKC\ VAVGPGGYAVVVCIGQIVLLK DQRKCFSI\DNPGYEPEVVAHV PGG\DTVAIGGVDGNVALYSIL GTTL\KDEGKLLLEAKGPVTDVA YSH\DGAF LAVCDASKVVTVFS VADGYSENNVFYGHHAIVCL AWSPDNEHFASGGMDMMVYV WTLSDPETRVKIQDAHRLHHVS SLAWLDEHTLVTTSHDASVKE
16836	47204	A	16940	31	449	
16837	47205	A	16941	1	53	
16838	47206	A	16942	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VSW SITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQQDYFP RRSYRCSHRLIICLVNIGNAL
16839	47207	A	16943	1	438	
16840	47208	B	16944	1	1267	
16841	47209	A	16945	635	808	

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16842	47210	A	16946	37	1319	QGEHGRGLHGFLGRPESQIPS WSRSAPLHRLEIWGALAPSLAD HSEGSPEVSVINTVDTSEHYMI Y\DAQMDYYGHPPGQPASSDRS VKIF*CAQWEGRS LFADLQGS WRGPVWQVGVGFTPLLRATS WAFVASLLTGKFIYSWERGKT GTLGRRATSNAGTRLLKLNFGC CWAPHGLTVLHSWACWVVS RGPSSL\LDFTPGEQWVKKIN NAHTIGCNAV\TWAPACCTWK PHRRPHRGQKPNYIKRFASGGC \DNL\KLVKEEDGQWKEEQK LE\GHSDWV\RDVAWAPSIGPA HQHHRPAAPRMGRVSIWTCDD ASSNTWSP*IV\DKFNDVVWHV S\WSITANILAVL\CGDNK\VPL WKES*WAKWVVPSSDVKQRG PGLPYQPSSDQEGPARNEQVKN DQGGALAPPAQLPGPAPSPGP
16843	47211	A	16947	1	1021	MSGEFIDHSHIARIYPGIFGTDA GSCIDQRGITGKLQPPEDRRL GEGKLTNTKDIHTKTPSVRHHH QRPKVDKTTKIGKKQSRKTGNS KNQSAPPPKCESSSPAMEQSW TENDFDELREEGFRRSNYSELK EEFRTHGKEVKNLEKRLDEWL TRITNAEKSLKDLMEKTKARG LQRVSVMEDEMNMKQEEKFR EKRIKRNKQSLQEIWDYVKRPN LRLIGVPESDGENGTKLENTLQ DIIQESFPNLRQANIQIQEIQR MPQRDSLRRATPRHIIVRFTKV EMKEKMLRAAREKA\HIALIPK LTT*LEVKLSSANVKEQKL*QT VFQTTVQSN
16844	47212	A	16948	1	393	
16845	47213	A	16949	1	2631	
16846	47214	A	16950	1	1155	
16847	47215	A	16951	1	1185	
16848	47216	A	16952	1	942	
16849	47217	A	16953	1	615	

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16850	47218	A	16954	474	2678	IKPQRWGGKKQSRKTGNSKNQS ASPPPKERSSSPAMEQSWTEND FDELREDSFRRLVITNYSELKEE VRTNGKEVKNLEKKLDEWLTR ITNAEKSLKDLMEKLTMAQELP DQCTSLSSRCDQLEERSVVMED EMNEMKCEEKFREKRIKRNEQ SLQEIWHYVKRPNLRLIGVPES DGENGTKLENTLQDIIQENFPN LARQANIQIEIQRMPQRYSSR RATPRHIIVRFTKVEMKEKMLR VAREKGQVTHKGKPIRLTADL LAETLQARREWGPIFNILKEKN FQPRISYPAKLSFIDRSTRQKVN KDTQELNSALHQADLIDIYRTL HPKSTEYTFFSAPHHTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRIKKLTRNHSTTWKL NNLLNDYWVHNEMKAEIKM FFETNENKDKTYQNLWDTFKT VCRGKFIALNAHKRKQERSKID TLTSQKGLEKQEQTHSKASRR QEITKIRAEKERVGRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGLRLRAEDVFPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPLDHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HLMLRLAIETVAHDYDVIVIDS
16851	47219	A	16955	1	675	
16852	47220	A	16956	1	1032	
16853	47221	A	16957	3	978	HEAKHQMADDAGSGGGGPKA LVGPGMG\NPVAFRRGF\GIVIR GPGSRPGGRGRGR\GRGARGSK \AEDKDW\MPVTKLG/RALVKD H*RSKFPWKEIYLFSLPH*RNQR IIDF\FLGGLLSKDEGFE*LCPVQ EQDPCPASRTQASRPFAIGGL QMAHVGLGC*VLPRKVATGHP VGAILAKLS\IVPVR\GYLGK VLAKP\HTVPICKV\TGRCGSVL VRLIPAP\RGLGMVSAPVA\KKL LMMAGIDDCYT\SARG\CTATL GQIWPRATL*LPFLRTYKLP*PP DLWKGRLYLPSFPIKEFTDHLV KDPHPSSVQQDSELQLVATT
16854	47222	B	16958	124	274	

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16855	47223	A	16959	202	2264	KWPKMNPQQQRMMAAIGTDKE LSDLLDFSAMFSPPVNSGKTRP TTLGSSQFSGSGIDERGVTTSW GTSGQPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGFSLSYRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPPSPK PPTSMFASTFFMQDGTNSSL WSSSNGMSQPGFGGILGTSTSH MSQSSSYGNLHSHDRLSYPHPS VSPTDINTSLPPMSSFHRGSTSS SPYVAASHTPPINGSDSLGTGRG NAAGSSQTGDALGKALASIYSP DHTSSSFSPNPSTPVGSPSPLTG TSQWPRPGGQAPSSPSYENSLH SLQSRMEDRLDRLDDAIHVLNRN HAVGPSTSLPAGHSDIHSLLGPS HNAPIGSLNSNYGGSSLVASSR SASMVGTHREDSVSLNGNHSV LSSTVTTSSDNLNHTQENYRG GLQSQSGTVVTTEIKTENKEKD ENLHEPPSSDDMKSDDESSQKD IKVSSRGRTSSTNEDEDLNPEQ KIEREKERRMANNARERLRVR DINEAFKELGRMCQLHLKSEKP QTKLLILHQA VAVILSLEQQVR ERNLNPKAACLKRRREEKVSA VSAEPPTTLPGTHPGLSETTNP
16856	47224	A	16960	1190	1327	
16857	47225	A	16961	386	554	ATISFRYSQCK*AEQGCDELG LFTKIRKSGYWGV*ATISFRYSQ CKALEIHLTAPVVPSALRIWGF QIPGFNQLSFHPSPEKSGSFLPC
16858	47226	B	16962	499	915	
16859	47227	A	16963	1	1785	
16860	47228	A	16964	1	3036	
16861	47229	A	16965	2	710	
16862	47230	A	16966	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGHLHLKIVVL
16863	47231	A	16967	1	1335	
16864	47232	A	16968	83	426	
16865	47233	A	16969	93	345	APALCLQILLDCSVNRNTRSF RPREVGIIQYKKGGAAGKGG TGNAPGFLLSKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
16866	47234	A	16970	1	1302	
16867	47235	A	16971	1	1174	
16868	47236	A	16972	274	1428	

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16869	47237	A	16973	411	629	HCLSHFQNTGPRGDVDFQQEL\ FPVLMADIRKEERSHLCRSSRR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
16870	47238	A	16974	618	1552	
16871	47239	A	16975	1	558	
16872	47240	A	16976	1	765	
16873	47241	A	16977	2	418	
16874	47242	A	16978	130	1965	
16875	47243	A	16979	1	1062	
16876	47244	A	16980	1	558	
16877	47245	A	16981	37	676	
16878	47246	A	16982	1	1014	
16879	47247	A	16983	1	2964	
16880	47248	B	16984	259	1751	
16881	47249	A	16985	1	987	
16882	47250	A	16986	1	1047	
16883	47251	A	16987	3	1413	GLHAARGPWVVQAWISITM\ER KEVCYGGQLGCFSEKWPAGTL QRPVKLLPWSPEDIDTRFLLYT NENPNNFQLITGTEPDIEASNF QLDRKTRFIIHGFLDKAEDSWP SDMCKKMFVEKVNICICVDWR HGSRAMYTQAVQNIRVVGAET AFLIQALS VKPCLGPVLWVGVR EGQGDAAARGTALEDVHVIAHS LGAHT/AAEAGRSWGPRGRITD DLGTA*YKVDGMG*ERRGVRF SI*P*GGGV*AGFGGERFR*RKN VGKSTAGWRM\GLDPAGPCFQ DEPEEVRLDPSDAVFVDVIHTD SSPIVPSLGFGMSQKVGHLDFFP NGGKEMPGCKKNVLSTITDIDG IWEIGGGFVSCNHLRSFEYYSSS VLNPDGFLGYPCASYDEFQESK CFPCPAEGCPKMGHYADQFKG KTSAVEQTFFLNTGESGNFTSW RYKVSVTLSGKEKVNGYIRIAL YGSNENSKQYEIFK
16884	47252	B	16988	95	315	
16885	47253	C	16989	1	780	

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16886	47254	A	16990	2	1426	SGTLDRMLIFWTITLFLGAAK GKEVCYEDLGCFSDTEPWGGT AIRPLKILPWSPEKIGTRFLLYT NENPNNFQILLSDPSTIEASNF QMDRKTRFIIHGFIDKGDES WV TDMCKKLFEVEEVNCIFVDWK KGSQATYTTQAANNVRVVGAQ VAQMLDILLTEYSYPPSKVHLI GHSLGAHVAGEAGSKTPGLSK/ RLQGLDPVEASFESTPEEVRLAD PSDADFVDVIHTDAAPLIPFLGF GTNQQMGLHLDFFPNGGESMPG CKKNALSQIVDLDDGIWAGTRDF VACNHLRSYKYYLEILNPDGF AAYPCTSYKSFESDKCFPCPDQ GCPQMGRHYADKFAGRTSEEQQ KFFLNTGEASNFARWRYGVSIT LSGRTATGQIKVALFGNKGNT QYSIFRGILKPGSTHSYEFDAKL DVGTEIKVKFLWNNNVINPTLP KVGATKITVQKGEEKTVYNFCS EDTVREDTLLTLTPC
16887	47255	A	16991	1	1407	
16888	47256	A	16992	954	1663	EPSPDPAHAPSVALLHTGNQSK VLPWPRNPCMKRW*K*KMLKI SWVHEWVTSNWISTAVRSLRV FAPKNVFQ**ALGPSGLVYC
16889	47257	A	16993	3	242	
16890	47258	A	16994	1	1815	
16891	47259	A	16995	1	375	
16892	47260	A	16996	3	2005	
16893	47261	A	16997	1	651	
16894	47262	A	16998	114	275	
16895	47263	A	16999	1	270	
16896	47264	A	17000	140	876	PPALVVGRRQKSWRMFEQMRA NVGKLLKGIDR\YNPENLATLE R\YVETQAKENAYDLEPNLAVP ESCTKFNP\AFFQTNGSTAQDSC *KALTN\LPH\DTL\CKC\MIRP GHIQ\VERPIPTDFCYLGPGWE TWPF\SR\WESPGMKTVDLLW KV*LG\EDSV\RK\FICHVVGIT YQHIDR\WLLAEMLGDLFGQAS *RCW\MSKYGWSADESGQIFIC SPRREHLTPRNIVEKIDFDSVSSI MASSQ

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16897	47265	A	17001	1	777	MSGENVTKVSTFILVGLPTAPG LQYLLFLLFLLTYLFLVENLAI ILIVWSSTSLHRPMYYFLSSMSF LEIWYVSDITPKMLEGFLLQOK RISFVGCMTQLYFFSSLVCTEC VLLASMGYDRYVAICHPLRYN LACTDFSTAELV/SFILAFILVFP LLATILSYWHITLAVLRIPSATG CWRAFSTCASHLTVTVFYTA LLFMYVRPQAIDSQSSNKLISA VYTVVTPINPLIYCLRNKEFKD ALKKALGLGQTS
16898	47266	A	17002	2	876	
16899	47267	A	17003	1	894	
16900	47268	A	17004	377	501	
16901	47269	A	17005	3	823	
16902	47270	A	17006	1	874	
16903	47271	C	17007	156	287	
16904	47272	A	17008	1	1140	
16905	47273	A	17009	1299	3135	ISGSVCILLWLQLLPAYNLIHT WEHRHSPPGT/RMSRLAKRNA WEADR/YAEAKLAASRRGQPSS LMSSREGGWGEGSQSRNSSHG ALKEAQFIITNAEKSLKDLME KTMAQELRDECTSLSSRFQLE EKVSVMEDEINEMKQEEKVRE KRIKRNEQSLQEIWDYVVRPNL HLIGVPESDRENGTKLENTLQDI IQENFPNLRQANIQIEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTITREYYK HLYTNKLENLEEMDKFLDTYS LPRLNQEEVESLKRPIGSEIGAI INSLPTKKSPGPDGFTAIFYQRY KKELVPFLLKLFQSTEKERILPN SFYEASIIIPKGRDITTKENFR PISLMNINAKILNKILANQIQHI EKLIHHDQVGFIPGMQGWFNIR KSINVIQHINRTNEKNHMIISDA EKAFDKIQQPFMLKTLNKLID GTYLKIVRAIYDKLTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIRQEKEIKGIQLG KEQVKLSLFADDMMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIK
16906	47274	C	17010	189	457	
16907	47275	A	17011	2	2600	
16908	47276	A	17012	107	1493	

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16909	47277	A	17013	3	2209	IHTKTPSVCHHHQRPKVDKTTK MGKKQSRNTGNSKNQSTSPPP KECSSAPAMEQSWMENDFDEL REEGFRRSNFSELTEEVTRHRK EAKNLEKKIRQM\VTRITNVEK SLNDLMELKNMARELRDKCTS FSSRFDQLEERVSVIEDQMNM KQEEKFREKRVK\RNEQSLQEIR DYVKRP\NLRLIGIPESDENGT KLENTLQDII\QENFPNARQAN IQIKEIQRMPPQRYSSRRATPRQI\ IVRFTEVEMREK\MLRAAREKG RVTHKGKTIRLTVDLSAETIQA RRESTRQKVNKDIQELNSAQHQ ADLTDNYRTLHPKSTEYTLFSA PHHTYSKIDHIVGSKALLSKCK RTEIITNCLSDHSAIKLELRICKL TQNLSTTWKLNLLNDYWVH NEMKAEIKMLFETNENKDDTY QNLWDTFKA\VCRGKYALNAH KRKQERSKIDTLTSQLEKEKQ EQSHSKASRRQEITKIRAEKKEI ETQKTLQKINESRDWFFEKINKI DRQLARLIKKKREKNQIDTIKN VLEFLAKAIRQDKEIKGIQLGKE EVKLFLFAEDMIVYLENPIVSA QNLLKLISNFSKVSQYKINVQK SQAFLYTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDMKDLFK ENYKPLLNKIKEDTKKWKNI PCSWVGRINIMKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFTW
16910	47278	A	17014	292	699	
16911	47279	A	17015	269	803	ALGPCSEALPTWVNENGEEMA QEIDLSALKELEREAILQVLYRD QAVQNTTEEERTRAAGN*KHTC SISGGKGPKNTDWEHKEKCCA RCQQVLGFLHRGAVCRGCSH RVCAQCRVFLRGTHAWKCTVC FEDRNVKIKTGEWFYEERAKKF PTGDNSV\RTSCTGKHETVGGQ LLQSYQK
16912	47280	A	17016	1	1173	
16913	47281	A	17017	349	718	AGPEGTTTAECPI/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLLSWKWQSASAKTTIHGLT KCLIHHDIPHISIAD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSPFN

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16914	47282	A	17018	196	577	GSSGQSESAQPQGLWVLPST'S LAILSTDVNV*QPCFPAGAHQG QPLAWVPFLAWLSWQQKRC* KQQRSSRNLDHRNPGWLHEE GDKTPFFHHPFQLGQSLSQQS LLPAGRR*ARGPQQLPSP
16915	47283	A	17019	1	2523	
16916	47284	A	17020	236	558	
16917	47285	A	17021	1610	2004	VTWSAQQMPWAIKNCPTHSP L GQGCLPQPKM*VVQNDFQ*G* WTHCRKGKGGQRVGVWPWQ TQNRGKGTFLTPLHSAVADAM LYAL*RGSDLDAAQTLPTAAQ DALYAVVPGGEPTGQLQVRHN EFALGQ
16918	47286	A	17022	1	735	
16919	47287	A	17023	88	1871	
16920	47288	A	17024	1	1299	
16921	47289	A	17025	2	260	
16922	47290	A	17026	144	1737	
16923	47291	A	17027	1	1182	
16924	47292	A	17028	262	1132	
16925	47293	A	17029	1	484	
16926	47294	A	17030	3	382	LKGAPDLELDGESRRTWRERK GRKRKERALGRWQV*RSRCA* P/STPAALNAPLQGASHSPFRLR NCWKGRSVRASSLLRQLAKGG CAARRLSWNLCQIVQMIEGHS QQPGLQPRQLRWSSQTLRTA
16927	47295	A	17031	1	2022	
16928	47296	A	17032	209	403	
16929	47297	A	17033	213	1993	
16930	47298	A	17034	1	378	
16931	47299	A	17035	64	1180	SASHSGAPATSLYERGVCPAL RRPPAVLVCRAAASCTLLAMS DLQEEGKNAINSPMPALVDVH PEDTQLEENEERTMIDPTSKEDP KFKELGKVLLDWINDVLAERI IVKQLEEDLYDGGVLQKLF/EK NLAGLQSLNVAEVTQSEIGQKQ KLQKVLEQLHDLLRPRSWALR WLGNSIHGKNLVGNPQLLVSL AMHFRAPIRLPEHVTQVVVV RKREGLLHSSHISEELTTTTEM MMGRFERDAFDTLFDHAPDKL SVVKKSLITFVNKHLNKNLEV TELETQFADGVYLVLLMGLLE DYFVPLHHFYLTPESEFDQKVHN VSFAFELMLGRRPSRNPRLVLK TWLTWDLKSPLRVLYNLFTKY
16932	47300	A	17036	3	764	

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16933	47301	A	17037	1	1230	
16934	47302	A	17038	1	313	
16935	47303	A	17039	145	263	IFLLYLKNKVQNK*EIKQHFLG KIMSRDNNTYLTWGTE
16936	47304	A	17040	5	982	PTFSRAVATMFSRAGVAGLSA WTLQPQWIQVRNMTLKDITR RLKSIKNIQKITKSMKMVAAAK YARAERELKPARIYGLGSLALY EKADIKGPEDKKKHLLIGVSSD RGLCGAIHSSIAKQMKSEVATL TAAGKEVMLVGIGDKIRGILYR THSDQFLVAFKEVGRKPPTFGD ASVIALELLNSGYEFDEGSIIFN KFRSVISYRTEEKPIFSLNTVAS ADQHGVSMTDIDADVAAKITQ EY/NIWANIILLTLWKESTTSGG RSARG*QPWDNGQARIAFWRM DLDNLDIWTF\NR\TRQAVITKE LIEHISGAASSVKKENSAS
16937	47305	A	17041	1334	1790	
16938	47306	A	17042	1	930	
16939	47307	A	17043	2	477	SGLGRLPGPWQEAGSSRGPSG DMAGVKALVALSFSGAIGLTF/ LHMLGCALEDYGVYWPLFVLI F\HAISSIPHFIKRVTYDSDAT\S SACRELAYFFTTGIVVSCLWISP VILARVALIK\WGACGL\VLA\G NAVIFPYNSRGFSLYLGRGDDF SW\EQW
16940	47308	A	17044	130	434	
16941	47309	A	17045	1	1365	
16942	47310	A	17046	656	839	
16943	47311	B	17047	16	149	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16944	47312	A	17048	1	1317	MTLNEHAAFKHLFNKAHLAPP LIHLTLSGHSTCFREHRVGVICS HFAQDLWPEQGREDSFQKVILR RYEKCIGHENLQLKIGCTNVDES LTYKRIHTGEKPCKCEECDKAF SKFSILTKHKVIHTGEKHYKCE ECGKAFTRSSSLIEHKRSHAGE KPYKCEECKGAFSKASTLTAHK TIHAGEKPYKCEECKGAFNRSS NLMEHKRIHTGEKPCKCEECKG KAFGNFSTLTKHKVIHTGEKPY KCEECKGAFSWPSSLTEHKRIH AGDKPYKCEECKGKTFKWSSTL TKHKIIHTGEKPYKCEECKGAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECKGAFKWSSRLSEH KRIHTGEKPYKCEECKGAFSW VSVLNKHKKIHAGKKFYKCEE CGKDFNQSSHLTTHKRIHTGAE KPYKCEECKGAFSKASTLTAHK TIHAGEKPYKCEECKGAFNRSS NLMEHKRIHTGEKPCKCEECKG KAFGNFSTLTKHKVIHTGEKPY KCEECKGAFSWPSSLTEHKRIH AGDKPYKCEECKGKTFKWSSTL TKHKIIHTGEKPYKCEECKGAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEECKGAFKWSSRLSEH KRIHTGEKPYKCEECKGAFSW VSVLNKHKKIHAGKKFYKCEE
16945	47313	A	17049	2	2183	

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16946	47314	A	17050	3	1440	IKVLLGENRVPNTMAVWLAQ WLGKGASLTSFPPCPTASLLRR LGEHIQQFQESSAQGLGLSLGP GAAALPKVGWLEQLLDPFNVS DRRSHL\QRYWVNDQHWVGQ DGPFLHLHLTSPPTHTLFTGH PAALAPAWGALVISLEHRFYGL SIPAGGRLALSRLFNISSSSPWIC FGGSYAGSLPSHHAPTFA\PRAQR IS*HFRIPSSAVRPQVVSRLMS TAIGGSLE/CRRWGLVRGGLGG KRGLGCQGRGGPA*VLADIASC FPQCRAAVSVAFAEVERRLRSG GAAQAALRTELSACGPLGRAE NQAELLGALQALVGGVVQYD GQTGAPLSVRQLCGLLLGGGG NRRGGIYVLCMYIVP*IVLHSLG QKCLSFSRAETVAQLRSTEPQL SGVGEAPIYLAPSYPPFGDTPD WHVLSVTQALGSSESTLLIRTG SHCLDMAPERPSDSPSLRLGRQ NIFQQLQTLWLKLAKESQIKGEV
16947	47315	B	17051	41	2709	
16948	47316	A	17052	874	1024	
16949	47317	A	17053	1	1602	MDSLWGPAGAGSHPFVHNSRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNGGLSPFVP GPGPLQTDLHAQRSEIRYDQSS QTSWTSSCTNRNAISSSYSSSTGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKV AEKAPGQTLALRNDSSRSEASR PSTRKFLLPHRRGEPLMLPPPV ELGYRVTAEDLDWEKEAAFQC IKSALQVEDKAISDCRPSRPSHT LSSLATGAS\DSAQVTSIPAPFP AASMDAGMRRTTRPGTSAPAAA AAAPPSTLNRTLGSLEWMEA LHISGPQQLQQVPRGQNQRSQ TSRTSSCPK/LKCHLELLQLYGR PPGTKAEAPASSHCQLTLSSSN TVSEDGPEAVSSGHTQCEKTAD TAPGQTLGPRGGSPRSQSSRPR RHKFLLPRRRGEPLMLPPPLEL GYWVTAEDLDREKEAAFQRIN SALQVEDKAISDCRPSRPSHTLS SLATGASGLPAISKAPSMDAQQ ERHKS
16950	47318	A	17054	1	1155	

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16951	47319	A	17055	1	1237	MDSLWGPAGSHPFVHNTL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNRGLSPFVP GPGPLQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSSYSSMGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKA ADIAPGQTLALRNDSSSTSEASRP STHKFPLPRRRGEPLMLPPSL EVGVPGSLVKELDREKEAAFQ RINSALQVEDKAISDCRPSWPS HTLSSLATGTSGLPAISKAPSMD AQQETHKSQDCLGLLAPLASA AGVPSTAPMSGKKHRPPGPLFS SSDPLPATSSHSQDSAQVTSILP APFPAASMDVGMRRTRRGEPL MLPPPLELGYRVTAEDLDQEKE AAFQRIKSALQVEDKAI
16952	47320	A	17056	132	835	
16953	47321	A	17057	1	2947	MPEQDKDPRVQENPDDQRRVP KVTGDARSAFRPLRDNGVLSPF VPRPGPLQTYLHAQRSEIRYNQ TSQNTWTSSCTNQNAISSSYSS VGGLLGLKWRRGPAGQESGAG MPEQDKDPRVQQNPDDHRTV PEVTGDARSAFWPLRDNGGLSP FVPRPGPLQTDLHAQSSEIRYN QTSQTSWTSSSTKRNAISSSYSS TGGLPGLKQRRGPASSRCQLTL SYSKTVSEDRPQAVSSGHTRCE KAADTAPGQTLAPR
16954	47322	C	17058	229	624	
16955	47323	A	17059	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGSA RYAGTTQKWTAVALQPLSRTS LKDSSEGKSSQWAEQAVALV VHFAWKEKWPDVGLYTDWSA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAAEEFN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLYS TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLHCY IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHPEAAGL
16956	47324	B	17060	10	597	
16957	47325	B	17061	6	297	

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16958	47326	B	17062	1	474	
16959	47327	A	17063	1	2712	
16960	47328	B	17064	1	738	
16961	47329	A	17065	3	772	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWKALPSSANNYS FFKRQLLACYWVLVEIEHLTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHYQA QAGPEGTSNLHEEVAQMPTVS TSATLPSLPEPTQMAL\WEVPY D\QFTEEEKTGAWFTDGSAYHT GTT*KWTVAALQPLSRTLKDS CEGKSPHPVIAQWAHEQSGH GGRDGGYLWAQQHGFPLTKA DLAMATAECPICQQQKRTLNP
16962	47330	A	17067	1667	2012	LSPHWPPGLPPSALIYAFLGRSS RNKRRLMKTMKVEACEDLSAP KYLRIQLPTGSPRRRSEAPEVCI FQGSS\FSLVHPPPLLSYPSARR* PQTTPRPPRHPSLHPLHPPSAQ
16963	47331	A	17068	5	1074	RHSALGTGGSSSCRQQRPRDT WVPETTILTAWSS/RLQQLGPW LQVTVAGQVNTLAGIQKTIHAE HCNVTE\RPPTGHEALAPPC EQ GPPQVLDSNAVAPTADCGYQL STAINRNQELCGRKPAVSPSR/G ISPGSPILRPVHPGHYCLQQRL SGQKSNRRTTQKSFQKLHVDK RKPENFSKESDHLIYSREGNPD VASLATPPGIWMMSATDLFYG DPFAFPGGGPFTLSLERGPSVIL GTDASEELLFTKASLAVSTSVF QFSTGKIYTEWVWQKNKSFLSP HFPTKPMASPVKGKHSTSLQR LNYRDRWQCLQEGAGLALLSA HMKVPTGSKEPQQAGKLPSKP RKQTTPTFKD
16964	47332	A	17069	2	699	CSACPVSHPWLLPWQSGSAFSL P*RALQRPPQHGHRLSKPMQSP RLSVLLRPWPRRPLPTDLLY*PS TRGHIHLHDRHHGAPSVSRRW GDKASPPQFPRYSRDSK/RRPPQ HGEVGTVFTNNKGGQS/PATST WEVQSAECQKAPEAGTPPSTA GDAEGANALRQESEGNWGSEA KSPHVAEAGSWRPQQGSCHHL HPPDKTKDAARKTHSPGDNGC QPRPPRCKTLWSLSRI
16965	47333	A	17070	223	1611	
16966	47334	A	17071	12	310	

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16967	47335	A	17072	31	430	LQAVRLF ¹ LP ¹ TTSSGL*KLRTVP TWSPSPSCFPHFQSGPRTTRAPT PST\PGYSGSYSSGPPSLCPRTS RRAPPRHRVPAGRERLHIRVPP YPRPERHLLRVSRRGILGNRV GRLPESRAIAGRKEEKTDTK
16968	47336	A	17073	1	474	
16969	47337	A	17074	153	1224	RVFSESVCS ¹ PVRNLEFLWRFAP PLAPAGRCPPGVPLQTS ¹ PRD ¹ TD AHRSSPLPPARASPGQVAAAYR WARCPGCGGRKPRSSGSWQLC RCPTLPPPPRGSRSSGRC/RTWP SPSPSCFPHFQSGPRTTRAPT ¹ PST\ PGYSGSYSSGPGR*GLSPLHAA/ VSPPLPPGGP*GSWARAGL ¹ SI ASAHSPCPLCRSLIRSRS*QTCT RSPT*NCEVPPSAP*AASPLRTM FALVRTAGLKVHLLPLGYCTT MS*SSMPQTVPVVVKVSNIPS VHPP*PCKDCTISRSRSIFTRSPI CNPPGFLLPFCSPSTGQ*SL*KEP PLASWTHFRSDVLLLFVSVMNG STLSLGCPSQKAVIALVQVT
16970	47338	A	17075	215	1246	
16971	47339	A	17076	566	675	QPCRQQ/CLQPGSPPRFHARTLT VTLVHTRTHTHAH
16972	47340	A	17077	184	584	
16973	47341	A	17078	1	1167	
16974	47342	A	17079	849	2266	
16975	47343	A	17080	1505	1891	DAEKAFDEIQQ/PFMIKILSRISI QGTYNV ¹ IKTIYDKPTANTILN VEKLKTFPLRTGTRQGCPLSAL LFNMVLEVIARAIRQEKGKGIQ ISKKEVKLSLFADDMIVHIENPK DSSRKLLLELIKEFSKV
16976	47344	A	17081	1	842	
16977	47345	A	17082	155	531	GNLWSVDLRPGTPLRQNFRGTI RQQHSRFTKNHCSQTPLLI ¹ PRQ TGSGVDLSKLQQTCS*GSCLVC TIDLANAFSIPVHKA/HQKQFA FSWQ\YTFTVLPRLTWLQPC*V PNLPAAETNTEPSNGT
16978	47346	A	17083	1	1773	
16979	47347	B	17084	598	1428	
16980	47348	A	17085	3	227	
16981	47349	A	17086	1	207	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16982	47350	A	17087	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLPDGPKHHC PPVKVGA YGGQVINGVLA\HPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAAVSDVVSLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQGQQYTFTVLP QWYINSPALCHNLIRRDLCFS LPLDITLVHYIDDIMLIGSSEQE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLPPTTKKEAQ
16983	47351	A	17088	1	435	
16984	47352	A	17089	2	808	PLIWL VQKTDGS/WRMTVDYC KLNQVVIPIAAAVSDVVSLEQI NTSPGTWYAAIDLANAFFSIPV HKAQQKQFAFSWQGQQYTFTV LPQWYINSPALCHNLIRRDLC FSLPLDITLVHYIDDIMLIGSSEQ EVANTLDFVRHLRARGWEINP TKIQGPSTSVKFLGFQWCGACQ AIPSKMRDKLLHLPPTTKKEA QCL\QLLACY/WALVETEHLTIS HQVTMRPELPIMNWVLFDPSSH KVGCAQQHSIKWKWYVHDW ARAGPEGT
16985	47353	A	17090	2	544	
16986	47354	A	17091	1	633	MTVDYRKFNQVVTPTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAF/LPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGQ DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
16987	47355	A	17092	1	3228	MVTSSLTVAITSLVVVITSLVVII TSFVVVTTSLVVVITSLVVVITSI AIAIATLVVLTFTVVVLTSLV VVTTSLVMVITPPFAVITSLGVV ITSLVVIITCLVLVITALGVVITS LGVVVTSLVMVITPLVAVITPL GVVITSLVVVITSLVMVITSLTV VITSSIVVITPLVMVITSLTVIITS LFVVITPLVMVITFLIVVNTSLV VVLITLIVSPPPSLCSLVVVITFL VVAITSLVVVITSLVVVITSL
16988	47356	A	17093	1	471	
16989	47357	A	17094	1	1590	

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16990	47358	A	17095	332	1704	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQGQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQC GRDGGYAWAQQCRLPLTKAD LNTATAKRPICQQQRPTLSPQY GTIPQGDQPATWWWVDYMG LPSWKQGRFVLTGIDTYSYGF AYPACNASAKTAICGLTECLH HHDIHPSIASDQGTHTHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQLQCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRRVADSLKGG SGSWWVGSTLAALDNDLGT RKVRAPSTN
16991	47359	B	17096	1	2061	
16992	47360	A	17097	1	1623	
16993	47361	A	17098	1	741	
16994	47362	A	17099	213	679	
16995	47363	A	17100	33	853	
16996	47364	A	17101	3	1249	
16997	47365	A	17102	17	770	
16998	47366	A	17103	130	469	
16999	47367	A	17104	1	1425	
17000	47368	A	17105	1	882	

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17001	47369	A	17106	227	1519	VTLIKMNAMLETPTLSAVSDG VKLSAVAALVLYVIVRCMNLKS ATAAPDLYLQDSGLSRFLKSC PLLTKEYIPPLIWGKSGHIQTAL YGKMGRVRSPPHYGHRKFITM SDGATSTFDLFEPLAEHCVGDD ITMVICPGIANHSEKQYIRTFVD YAQKNGYRCAVLNHLGALPNI ELTSPRMFTYGCTWEFGAMVN YIKKTYPLTQLVVVGFSLGGNI VCKYLGETQANQEKVLCCVSV CQGYSALRAQETFMQWDQCR FYNFLMADNMKKIILSHRQALF GDHVKKPQSLEDTLSRLYTAT SLMQIDDNVMRKFHGYNSLKE YYEEESCMRYLHRIYVPLMLV NAADDPLVHESLLTIPKSLSEKR ENVMFVPLPHGGHLGFFEGSVL FPEPLTWMDKLVEYANAICQ WERNKLQCSDEQVEADLE
17002	47370	A	17107	21	385	SRSSSVVRQEPGRADGQRRRR GGPGLRSPGERQQPRPARPCRR AHHPGDPAGA/QPPPKTGKTCG APKATTRSTRCSISR*PPFPRSSC PTSPRATPSSASSTAAMRRWL VTCRMPNWAR
17003	47371	A	17108	158	423	
17004	47372	A	17109	1	1851	
17005	47373	A	17110	1	1104	
17006	47374	A	17111	66	432	
17007	47375	A	17112	103	3531	
17008	47376	A	17113	1	1311	
17009	47377	A	17114	1	750	
17010	47378	A	17115	183	373	QPQATTLVHPVHVA*LF*VHW QNRYPADNQGYRHWRCLLPA LPDAGR/VRLSASC*KPPNSRG
17011	47379	A	17116	344	480	SPKDQEPSISKV***TSLPTSSR SLCLPPARMHFWVLAALLSFA
17012	47380	A	17117	3	3565	HEARRGLKMAACGRVRRMFRL SAALHLLLFAAGA/RNSPARA SHSQGGPGANFVSFVGQAGG GGPAGQQLPQLPQSSQLQQQQ QQQQQQQPQPQPFPAGGPP ARRGGAGAGGGWKLAEEEESCR EDVTRVCPKHTWSNNLAVLEC LQDVREPENEISSDCNHLLWNY KLNLTDPKFESVAREVCKSTIT EIKECADEPVGKGYMVSCLVD HRGNITEYQCHQYITKMTAIFS DYRLICGFMDDCKNDIN

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17013	47381	A	17118	1	495	PDRRRGCPALSGS*SGPAPRL/C LCNPTLTFHPGSVIGVCL*RHW LCRANTRHPSYRGRLSSR
17014	47382	A	17119	1	1479	
17015	47383	B	17120	67	8652	
17016	47384	B	17121	67	9183	
17017	47385	A	17122	1	1440	
17018	47386	A	17123	1	422	FRWKELDRPLEPSPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLNEFYEYHALM MEEGAVIVG
17019	47387	A	17124	2	587	WMGSCGLHRAWLQMRWWPE SAWKELDRPREPPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLKTPGLGRARAW LRLALMQKKMADYLRCLIIQR DLLSEFYEYHALMMEEGAVI
17020	47388	A	17125	312	493	
17021	47389	C	17126	102	278	
17022	47390	A	17127	2	140	KAHNCSGLERPPLDNPSVSNRL FASFLSPRDLKGR\ICSD*SQVL
17023	47391	A	17128	1	2051	
17024	47392	A	17129	1	498	
17025	47393	A	17130	2	340	
17026	47394	A	17131	140	396	
17027	47395	A	17132	703	912	
17028	47396	B	17133	201	912	
17029	47397	A	17134	1	1382	
17030	47398	A	17135	2	431	
17031	47399	B	17136	99	1151	
17032	47400	A	17137	1	891	
17033	47401	A	17138	15	2722	

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17034	47402	A	17139	476	2934	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLRFIWNQKRARIAKAI LSQKNKAVGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPLIYNYQIFDKPEKNKQ WGKDSL FNKWCW DNLWLAICR KLKLDPF LTPYTKINSR WIKAL NLRPKTIKTLEENLGITIQDIGTG KDFMTKTPKAMATKDKIDKW DLIKLSFCTAKETTIRVNR LPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWEKDMNR HFSKDDILA AKKHKM KCSSLAI REMQIKTTMRYHLTPVRMAIHK KPGNNSQKDIPDWRNGPKRKD RQITTFRGPTKLQVVVPTLGAA PGRGCPWPRRPRCPGREGEELH PALGGERGQRQAAGSGGARRL APSAGDGLCVGPVEDTGETQT WKTGQPGLREPWWGWRPTEPP PAPSSHSEEWPRRPPVRRAPRP AGEHAGEGGA AVADTTAFSPW LPRVGGWHLQVHRGGRSCAGA RRFGGSRGWDLGDLSSAPVASL
17035	47403	A	17140	1	2298	
17036	47404	A	17141	3	482	
17037	47405	A	17142	1	1026	
17038	47406	A	17143	1	623	
17039	47407	A	17144	25	392	ESLKGADPKFLRNMR FANKHN KKGLKKMQANSARATSARAD AIKALVKPKEGKPDIPKGVSRK LDPLAYIAHPRLGKCAHSCI AK GLKLCRLQAKDKDQTKAQAA APA*APKGARTPTKASE
17040	47408	A	17145	1	507	

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17041	47409	A	17146	2	811	YRFSGPTIRSIQNHTTHNQGRK WHKKGIIKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTYVVGPKFLRNTRFAKKHNK KGLKKMQANNAKAMSAR\AE A\KALVKPKEVKPKIPKGG\SR KLRSTLPDIVHP\KLGKSARAPY LPRGFRLCLPNANAKSISSQGQ GGQGGQGSNQGPGFKPQLQVP ASGVPNVPRALTKGFQSRYSLA QHEGQERTWVRPPTPRPWGYH FAWGWGSPVAICTNKPEAGKR RNEKEKLCQGDGY
17042	47410	A	17147	1	636	
17043	47411	A	17148	169	410	
17044	47412	A	17149	385	1359	QTNSPNCVRGRVSPVLPGSSS MDVLASYISIFQELQLVHDTGYF SALPSLEETWQQTCELEERYLQ TEPRRISETF\GEDLD\CF\HAFP SPCIEESFRRLDPLLPVEAAICE KSSAVDILLSRDKLLSETCLSLQ PASSSLDSYTAVNQAQLNAVTS LTPSPPELSRHLVKTSQTL SAV DGTVTLKLVAKKAALSSVKVG GVATAAAVTAAGAVKSGQS DSDQGGGLGAEACPENKKRVHR CQFNGCRKVYTKSSH LKAHQR THTGEKPYKCSWEGCEWRFAR SDELTRHYRKHTGAKPFKCNH CDRCFSRSDHLALHMKRHI
17045	47413	A	17150	1	948	
17046	47414	A	17151	400	446	PSFLR*PSFWSREFH
17047	47415	A	17152	7212	10914	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHIVIRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDPRPSRFRTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17048	47416	B	17153	1	14934	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17049	47417	A	17154	999	3009	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSVDTVAV GLVSSVVVYPVYLAILFLFRMS RSKVAGSPSPTAGQQVLDIDS CLDSSVLDSSFLTFSGLHAEVRT LLGVLGWAGGPAALALGLKT LCTSQQAFVGMKSDLFLDDS KSLVCWPSGEGTLSWPDLLSDP SIVGSNLRQLARGQAGHGLGPE EDGFSLASPYSPAKSFSASDEDL IQQVLAEGVSSPAPTQDTHMET DLLSSLCAEVHTALPLHCCLQ DSVQWHA VQGLPAFCRGPVT QEAQETARPAAQNLVLIPLHAA PHQAVAEIDALYDVYLDVIDK WGTDDMLFLGDFNADCSYVR AQDWAAIRLSSEVFKWLIPDS ADTTVGNSDCAYDRIVACGAR LRRSLKPQSATVHDFQEEFGD QTQASGPWGGAGLGSPPPGRT QAAGRALAISDHPVEVTLKFH
17050	47418	A	17155	242	363	TKRQENGRKKQDRTPTEQQLR VK*KSRSTKKRRKQSRSES
17051	47419	B	17156	1	12879	
17052	47420	A	17157	3	596	NLLFPVRSERGPHRPTPLSWLW LRPCELNKLAAAGGLAAGSSRA GALYLLIYIPRRPARAAPLCPAA ATGAPGASAGSASPASARPPGL ARAAPGPLRGRPRSPRTPFV/ WLGVSLLS\YQHYFAEPFESFQ VCCRHCILCLTIRVHFPCLSAN PFHFSQLHLGPRPGKACHSVGL QIYNSQAHSHPQQRQLFC
17053	47421	A	17158	1	235	FFFVLYNLFLFVITSIPLQKVSIL TQRQLVAEENVKCCTVPEPQ** *LSNYPFVEMGFCHVGPWSR TTPKSVSR

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17054	47422	A	17159	256	4064	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRRLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17055	47423	A	17160	2	347	LTSRGP/LCCVLLICLFLGANAV WYGAVGDSAYSTG/LCVQAEP AERRHSRCWPGVQRGCLSRP GHPLSLPDVPEQGGWEPEPHTC RAAGAGRRQLPGLNPCWTAPS SRSEASTLR
17056	47424	A	17161	9415	9994	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SKASFRVPTPSRSPVALPAPAGG
17057	47425	A	17162	1030	1222	
17058	47426	A	17163	2	2762	
17059	47427	A	17164	25	115	
17060	47428	A	17165	1	383	
17061	47429	A	17166	120	596	IKAPCASFPTSGFPGQRRSFVGR SSSTPEECGHSELGRNEDKASR GRIRQQ/PFAVLKYLLFCSLRW* YPGKQGLEWTSSKLQQTCKRY RERHKDTPQEEQLQDT*LSG/V TK/G*NEGKNVKGSRERSGYS QREAHQTNSRSLGRNSTSQKRV GASIQRS

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17062	47430	A	17167	1	2236	RPSGPQPLPGSVRHPRPVLRRPL PRAQGSSSSFRPRPPFAPDTMD KFWWHAAWGLCLVPLSLAQID LNITCR\FAGVFHVEKNGRYSIS RTEAA\NLCKAFNSTLPTMAQM EKALSIGFETCRYGFIEGHVVIP RIHPNSICAANNTGVYILTSNTS QYD\TYCFNASAPPEEDCTSVTD LPNAFDGPITITIVNRDGTRYVQ KGEYRTNPEDIYPSNPTDDDDVS SGSSSERSSSTGGYIFYTFSTVH PIPEDSPWITDSTDRIPATSTSS NTISAGWEPNEENEDERDRHLS FSGSGIDDEDFISSTISTTPRAF DHTKQNQ\DW\TQ\W\NPSH\SNP EVLL\Q\TTTRMTD\VDNRGTTA YEGNWNPEAHPPLIHHEHHEEE ETPHSTSTIQATPSSTTEETATQ KEQWFGNRWHEGYRQTPREDS HSTTGTAASAHTSHPMQGR TPSPEDSSWTDFFNPISHPMGRG HQAGRRMDMDSSHSTTLQPTA NPNTGLVEDLDRTGPLSMTTQ QSNSQSFSSTSHGLEEDKDHP TSTLTSSNRNDVTGRRDPNHS EGSTTLLEGYTSHPHTKESRT FIPVTSAGTGSFGVTAVTVGDS NSNVNRSLSGDQDTHFSPGGSH TTHGSESDGSHGSQEGGANTT SGPIRTPQIPEWLILASLLALALI LAVCIAVNSRRRCGQKKKLVIN SGNGAVEDRKPSGLNGEASKS
17063	47431	A	17168	1	1980	

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17064	47432	A	17169	362	2551	EDFSTSATTSSSPRELPSGQGL WLCWLELLPSFTRNGVVHTGP C*GLC*RWQLSPQPSLPSNFGM KISDMATLITVPAA/FSSSSDW NTPAPTQSPEEVRRLHLCTSM DMLKVGQGEGAAAAGLVQNP SGHALGCLDSAASGISDPSVAV LLENVPNQRGESLRCVPVYLGQ WNSKETGMDSGQFGEEKGAH DPSPTYHACLSTQWWPSPESP YPQPSGPQVKEPRNPGKSISML CLWIRYHAADSGSSRAKLPLEE RLRPFSPTHDCLAFPLPLEKRPE GNVGSRCPSGTLPEEGSGSNI CCSAIFPVLQPPLVIPRQTRSGV DLQQTPTDLQLRDLTDRSSLP MEQSWIENDFDELNRSRLQKA NKLENLEETDKFLDTYTLPRLN QEETESLNRPTGSEIEAIIINNVP TKKSPGPDGVTAKFYQRYKEE LRTVKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGIDATYLKIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILPKSGPSAARLLEFAGG PLQTLFAWVSPEEAAEQQILPN
17065	47433	A	17170	1	483	
17066	47434	A	17171	52	321	
17067	47435	A	17172	274	393	
17068	47436	A	17173	304	415	
17069	47437	A	17174	321	796	
17070	47438	A	17175	1	198	
17071	47439	A	17176	2	454	CRPVPAATNGRCFPATPRDPGP RMRRACAWGRSKGAGRCLRR ATTRDKMAKKESILDLSK\YID\ KTIRVKFQGGGRK\ASGILKGFEP NLL\NLVLTVTI*YMRDPDDQY KLTED\TRQLGLVVFRG\TSLVL MCPQDGMEDIAIP\NPFIQQDA
17072	47440	A	17177	1	1806	
17073	47441	A	17178	1215	2065	
17074	47442	A	17179	217	441	
17075	47443	A	17180	117	296	DWSDIQKLG*SLSLSKEIFQL*IV SPPALHPAKLLHRSA*LSVPQIG RECQCGWTAMC

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17076	47444	A	17181	2	138	LRTAPEFPGRRFRGCAAAAES VAALL*STPPCRSGDSLCKGSR
17077	47445	A	17182	222	760	
17078	47446	A	17183	192	244	YIQPVF*GWTLGCCQFF
17079	47447	A	17184	1	990	
17080	47448	A	17185	1	2196	
17081	47449	A	17186	459	1387	
17082	47450	A	17187	2	454	
17083	47451	A	17188	1	957	
17084	47452	A	17189	398	553	
17085	47453	A	17190	2	293	
17086	47454	B	17191	53	182	
17087	47455	A	17192	3	1114	
17088	47456	A	17193	1	1024	SVVEFIPSCAVVLWSSVLLSPVR LLSYLSGVPPGHPMEDSMDMD MSPLRPHNYLFGCELKAGQDY HFKVDNDENEHQLSLRTVSLG\ AGAKDELH\IVEAEAMYEGSP IKV/THLATLKMSVQPTVSLGG \FEITPPV\RLKCGSGPVHISG QHLV\VEEDAEESEDEEEEDVK/ LSLSISGKRSAP\GGGSKVPQKE RKTCMLMKDDDD\DDEEDGYD EDD\DDDDDDF\DEEEAEEKAP SERNL\YRDTP\AKNAQKSNQNG KDSKPSSTPRSKGQESF\KKQEK TPKTPKGPSSVEDIKAKMQASI A/EKGGSLPKVEAKFIN\YVKNC FPMTDQDAIQDLWQWRKSL
17089	47457	A	17194	2	291	
17090	47458	A	17195	185	307	
17091	47459	A	17196	3	392	VRGGQAFRQRPAPPLPVTRSAH RGRRPTRASQPSLFHLLREGK MSESSKSSQPLASKQEKDGTE KRGRGRPRKQ\PVSPGTALVG SQKEPSEVPTPKRPRGRPKGSK/ NKLEKEEEEGISQESSEEEQ
17092	47460	C	17197	76	378	
17093	47461	B	17198	1803	1905	
17094	47462	A	17199	1	416	
17095	47463	A	17200	30	407	
17096	47464	A	17201	1	993	
17097	47465	A	17202	1	1287	
17098	47466	A	17203	1	2004	
17099	47467	A	17204	1	1368	
17100	47468	B	17205	1	3035	
17101	47469	B	17206	1	981	
17102	47470	A	17207	1	2017	
17103	47471	A	17208	1	1069	
17104	47472	A	17209	1	2463	
17105	47473	A	17210	1	324	

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17106	47474	A	17211	51	1528	GREASKMAQTQGTRRKVCYY YDGDVGNYY*G\QGHMPK\HR IRMTHNLLLNYGLYRKMEIYRP HKANADEMTKYHSDDYIKFLR SI/RVPDNIVGSTSKQMQRFNVG EDFPSIPMACFEFCQLSTGGSVA KCL*NFNKQQT DIAVNWAGGL HHAKKSEASGFCYVNDIVLAIL ELLKYHQRVLYIDIDIHHGDGV EEAFYTTDRVMTVSFHKYGEY FPGTGDLRDIGAGKGKYYAVN YPLRDGIDDES YEAFKPVMSK VMEFQPSAVVLQCGSDSLSG DRLGCFNLTIKGHAKC VEFVKS FNL PMLMLGGGGYTIRNVARC WTYETAVALDTEIPNELPYNDY FEYFGPDFKLHISPSNMTNQNT NEYLEKIKQRLFENLRMLPHAP GVQMQAIPEDAIPESGDEDED DPDKRISICSSDKRIACEEFSDS EEEGEGGRKNSSNFKAKRVK TEDEKEKDPEEKKEVTEEEKTK EEKPEAKGVKEEVKLA
17107	47475	A	17212	1	492	
17108	47476	A	17213	1	1851	
17109	47477	A	17214	1	753	
17110	47478	B	17215	427	614	
17111	47479	B	17216	1	711	
17112	47480	A	17217	750	1173	
17113	47481	A	17218	1	1224	
17114	47482	A	17219	1242	1743	
17115	47483	A	17220	423	1739	
17116	47484	A	17221	117	1183	
17117	47485	A	17222	1	377	FRRGAW/VPLLTRWGFRPRGGC ISNDSPRRS/IHYRETKPEPPVRV CARGLQRTPSAGHRAVLRMPR RGRTRPGAPOGGAALGGPARD RECACAGRGAQTFALRKNCVC KMPSGRGRTCSKNFSYFPS
17118	47486	A	17223	331	1134	
17119	47487	A	17224	178	1200	
17120	47488	A	17225	1	367	
17121	47489	A	17226	85	3360	
17122	47490	A	17227	8	930	
17123	47491	A	17228	1	765	
17124	47492	B	17229	120	509	
17125	47493	A	17230	232	3187	
17126	47494	A	17231	1	999	
17127	47495	A	17232	1	325	
17128	47496	B	17233	1	535	
17129	47497	A	17234	271	634	

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17130	47498	B	17235	301	523	
17131	47499	A	17236	1	1185	
17132	47500	A	17237	178	497	LPVPAYELNGSQQLPLLGA A IGYLAYKRFYVKDHRNKAMIN LHIQKDNPKIRHAFDME\DLGD KAV\YCRCWRSKKFPFCDGAHT KHNKE\TGDNVGPLIIKKKET
17133	47501	B	17238	184	395	
17134	47502	A	17239	1	103	PAWHEGQPQPESECPQRQCIC SHGRGTPARCGVSY*ART/PAG ESP*TQQDLRAS*LGTRANHSQ RASARHKDSASAVTGAGHQ RD AE
17135	47503	A	17240	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
17136	47504	A	17241	265	890	
17137	47505	A	17242	1	1374	
17138	47506	A	17243	1	6189	
17139	47507	A	17244	1	8277	
17140	47508	A	17245	178	1177	
17141	47509	A	17246	1	447	
17142	47510	A	17247	1	465	
17143	47511	A	17248	3	3910	
17144	47512	A	17249	2	1871	
17145	47513	A	17250	1	666	
17146	47514	A	17251	1	635	FPGRFRRAVWCTHCCAPTPSG PVLPHSAAMSFLKSFP PPGPAE GLLRQQPDTEAVLNGKGLGTG TLYIAESRLSWLDGSGLGFSLE YPTISLHALSRDRSDCLGEHLY VMVNAKFEEESKEPVADEEEE DSDDDVEPITEFRFVPSDKSAF* FPCSVEAMFTAMCECQALHPD PEDESDDDYDGEEYDVEAHEQ GQGDIPTFYTYEEGLS
17147	47515	A	17252	1	2796	

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17148	47516	A	17253	1	2393	MEIRGALDLRKQVLIFLVLLG LSRAGTESAHYSVAEETEIGSFV ANLARDLGLGVEELSSREARV VSDDNKKYLHLDLLTGNLLLN EKLDRELCGSTEPCVLHFQVV LENPLQFFRFELCVKDINDHSPT FLDKEILIKISEGTTVGATFLME SAQDLVDVGSNSLQNYTISPNSH FYIKIPDSSDRKIYPELVLDRAL DYEQEAELRLTLTAVDGGSPPK SGTTLVLIKVLDINDNAPEFPQS LYEVQVPEDRPLGSWIATISAK DLDAGNYGKISYTFHASEDIR KTFEINPISGEVNLRSPLDFEVIQ SYTINIQATDGGGLSGKCTLLV KVMINDNPPEVTISSITKRIPE NASETLVALFSILDQDSGDNGR MICSIQDNLPFFLKPTFKNFFTL VSEKALDRESQAEYNITITVTDL GTPRLKTEYNITVLLSDVNDNA PTFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVNYSLLPP QDRHLPLASLV SINADNGHLFA LRSLDYEALQEFEFVRVGATDRG SPALSSEALVRVLVLDANDNL PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQADLL TVYLVVALASVSSLFLLSVLLF
17149	47517	A	17254	89	1283	
17150	47518	A	17255	1	276	
17151	47519	A	17256	2	259	WQGGILGSDPTPPLTSPNLLQT ACFREERDV/RRERGQPLGDHS ALCLPRRGVPVPCDGLLCWWG PPDAAEPLRGPSPARAGPVLPG
17152	47520	A	17257	624	4055	
17153	47521	A	17258	3	1784	
17154	47522	A	17259	1	1272	
17155	47523	A	17260	3	576	
17156	47524	A	17261	1	1017	
17157	47525	A	17262	1	1107	
17158	47526	A	17263	256	634	
17159	47527	B	17264	76	1340	

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17160	47528	A	17265	1659	2107	NLLCCTCSPFSSPVSAPOQTCTSN CIALLVHQQQWLVSLLQKHF LHLHIFLA\LIVFNFSLSHF*IFDF DPWKLPP*PISPTLSSLPSNRHIA LILPCSCMTEDFDKMPPAVAR YMTSPQAVHIIAVCPFKASRKV SHSSLKIWLFKSV
17161	47529	A	17266	248	540	KFFSLRMLNINPHCLLACRVSA ERSAVSLMGFPLCISRPFLAAL NIFSISTLVNLMIIISLGVALLEE YLCGILCIS*IGMLACLARLGKF SWIIR
17162	47530	A	17267	4880	5121	
17163	47531	A	17268	468	602	CLQLCSFGLGLTW*CGLFFYST *TLK*FFPIL*RMMVVF*WGLH
17164	47532	A	17269	359	462	
17165	47533	A	17270	457	600	LWWFNALFLCWLTSTLTTTLE LHECLPVWRD*TRRHLTGWSK GSCTN
17166	47534	A	17271	2405	2830	TPVFRFIALSYTFADSDGEYF*IL LSENPQRFFKCCFNMRSNKIPW DTFANSIKGAEFSGKHFIREFISS SESESESESTRFRDFRGLETSSSL SLDSFSLGDDFLSFLSFTIDA VSSKRLSKEIRKARLCWRFPRI
17167	47535	A	17272	1	2172	
17168	47536	B	17273	446	625	
17169	47537	B	17274	1	2604	
17170	47538	A	17275	1	3039	
17171	47539	B	17276	1	1383	
17172	47540	A	17277	1	993	

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17173	47541	A	17278	3	2494	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYSKIDHIVGSKTLLSKCKRTE IITNYLSDHSAIKLELRIKNLTQS RSTTWKLNLLNLLNDYWVHNE MKAIEKMFFETNENKDDTTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKNREKNQIDTIKNDK GDITNPTEIQTIREYYKHLA NKLLENLEEMDTFLDTYTLPRLN QEEVESLNRPIGTSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKGRDITTKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNHHSI NVIQHINRAKDKNHMISIDEEK AFDKIQPFMLKTLNKL/G/DKI PRNPTYKGCEGPLQGELQTTAQ GNKRGHKQMEEHSMMLGRKN QYHENGHTAQG/IL*IQCHPHQ ATNDFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGYSNQNSMVLVPKQR YRSMEQNRLRNAAYLQLSD L*QP*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RFKR*T*NHKNPRRKP RHYHSGHRHGQGLHVQNTKSN
17174	47542	A	17279	285	502	
17175	47543	A	17280	1	3189	
17176	47544	B	17281	1	1235	
17177	47545	A	17282	1	3139	
17178	47546	B	17283	1	1779	
17179	47547	B	17284	1	3127	
17180	47548	A	17285	1	3325	
17181	47549	A	17286	1	3145	
17182	47550	A	17287	1	1095	MIMGDFNTPLSTLDRSTRQKVN KDIQELNSALHQAADLIDIYRTLH PKSTEYTFFSASHLTYSKIDHIV GSKALLSNCKRTEIITNYLSDHS AIKLELKIKKLTNRSSTWKLN NLLNNDYWVHNEMKAIEKMFF ETNENKDDTTYQNLWDTFKAEC RGKFIALNAHKKRQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAELEKETQK/TLQK/INE SRG/WKKFLEKLCFIELS*ARRI

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17183	47551	A	17288	1	3229	
17184	47552	A	17289	1	1205	
17185	47553	A	17290	1	986	
17186	47554	A	17291	1	3170	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSDGS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDTFKAV CRGKFIALNAHKRKQERP KIDT LTSQLEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKIN*S QSWFFERVKKIDRPLARLIKKK REKNQIDTIKND
17187	47555	B	17292	1	2148	
17188	47556	A	17293	1	1416	
17189	47557	A	17294	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEITNYLSDHSA IKLELRIKNLTQNRSTTWKLN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKEKQEQTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
17190	47558	A	17295	1	3345	
17191	47559	B	17296	1	3122	
17192	47560	A	17297	1	2118	
17193	47561	A	17298	965	4091	
17194	47562	B	17299	15	2762	
17195	47563	A	17300	1	3049	MTVKVRITVTSGKKPPWLIPRQ TGYGVDLWQTPDLQLRVLT RRKTNKQKGHPHQNPICSPSS KTKDRSTRQKVNKDIQELNSAL HQEDLIDIYRTLHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKW KRTEITANCLSDHSAIKLELRIK KLTQNW SATWKLNNLLLND C WVHKEMKAEIKMFFETK\ENK\ DTTYQNLWDAFKA\VCRGKFIA LNAHKRKQERSKIDTLTSQLE LEKQEQTHSKASRR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17196	47564	A	17301	3	4101	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNNPLLND YVWHKEMKAEIKMFFETNENK DTTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQLE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
17197	47565	A	17302	1	3234	MANKNNQCREVLKGPDELKT MAREPHDKCTSFSSQFDQLEER VSAMEDQMNEKREEKFREK RIKRNEQRLQEIWDYVKRPNLC LIGVPESDGENGTKLENTLQDII QENFPNLARQANIQEIQRMP QRYSLRRTTPRHIVRFTKVEM KEKMLRAAREKGRVTHKGKPI RLTADLSAETLQARRESTRQKV NKDIQELNSAQHQADLTDNYR TLHPKSTEYTLFSAPHHTYSKID HIVGSKALLSKCKRTEI
17198	47566	A	17303	1	3390	MLTLNHNRLTDAILNISTCLSR HLDLNTGGKKRISYKRNLYME EHLEGLCSNEFTWENSTIMTDS QMLMHREEPGSLPNIPILSIVFT NNRSKRQKVNKDIQELNSALH QADLIDIYRTLHPKSTEYTFSA PHHTYSKTDIVGSKALLSKCK RTEIITNCLSDHSAIKLELRICKL TQNCSTTWKLNNLLNDYWV HNEMKAEIKMFFETNENKDTT YQNLWDTFKAVCRGKFIALNA HKRKQERSKIDTLTS
17199	47567	B	17304	1	2427	
17200	47568	A	17305	1	4257	
17201	47569	A	17306	1	3726	MVVKTNARELRDECTSLSSPFN QLEERVSVMENQMNKMKQEE KFREKRIKRNEQSLQEIWDYVK RPNLCIGVTESDGENGTKLEN TLQDITQENFPNLARKANIQIE TQRTQRYSSRRATLRHIVRFT KVEMKEKMLRAAREKDFTPTK IKRDKEGHYIMVKGSIQEEELTI LNIYAPNTGAPRFKQVLSDLQ RDLDSTLIMGDFNTSLLTLDR SMRQKVNKDTQELNSSLHQAD LIDIYRTLHPKSIE
17202	47570	A	17307	1	1059	

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17203	47571	A	17308	130	1092	
17204	47572	A	17309	1	924	
17205	47573	A	17310	1	1206	
17206	47574	B	17311	1	1257	
17207	47575	A	17312	1	685	MEIILRICKLTISKELLDGSSRL TMTHYKHRYFSHSAEEQIISEEL NESEMICQHHTAENDFDELRE EGFRRSVITNFSKLKEDVQTHF KEAKNLEKRLDEWLTRINSVEK TLNDLM*LKTVA*ELRDTYTSF NSRFDQVEERSVIEDQMNE EREKFKREKRV*RNEQS/LQEIW NYVKRPNLHLIGVSEIDRENGT KLENTLQDIFQENFTYLARQAN IQIQEI
17208	47576	B	17313	70	1227	
17209	47577	B	17314	640	751	
17210	47578	A	17315	1	2328	MGVSGAQPRSCWHRSTGSQ GLGPVPEPADCGGEAAGRARE EGTVSLTMGTADSDEMAPEAP QHTHIDVHIHQESALAKLLTLC CSALRPRATQARGSSRLVASW VMQIVLGILSAVLGGFFYIRDY TLLVTSGAAIWTGAVAVLAGA AAFIYEKRGGTWALLRLLTL AAFSTAIAALKLWNEDFRYGYS YYNSACRISSSSDWNTAPATQSP EEVRRHLCTSFMDMLKVGGQ GEGAAAGLVQNPSGHALGCLD SAASGISDPSVAVLLENVPNQR GESLRCVPVYLGQWNCSETG MDSGQFGEEKGAHDPSTYYH ACLSTQWWPSPESPYPQPSGPQ VKEPRNPGKSISMLCLWIRYHA ADSGSSRAKLPLEERLRPFSPH DCLAFPLPLEKRPEGNVGSRCP SGTKLPEEGSGSNICCSAIFPVL QPPLVIPRQTRSGVDLQQTPTD LQLRDLTVRRKTNKQKGHPHQ NPMCTSPSSKTKELKEDVRTHH KEAKNLEKRLDKM\VNRRINSVE KTLNDPMELKTQARELHDKCT SFSSRFDQLEERSVSTEDQMNE MKREEKFKREKRV\RNEQSLQE IRDYVKRPNLCLTGVPESDGEN ETKLENTLQDNQENFPNLARQ ANIQIQEIQRTPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAGE KGQVTHKGKPI\TLADLLAETL
17211	47579	A	17316	508	666	
17212	47580	A	17317	622	780	

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17213	47581	B	17318	1	777	
17214	47582	A	17319	1	508	MSGFEKQYKKIRLDKTLDSENE GLELPVPAKRSLNGLVRLYACC GLLLCPAYPQHFAHGYVDKIPG YPGRAGTLTGLHPMQVCRCRR QAPCLKSNNALIVILGTVTLDA VGIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPK YKLPSENTTNTSMQIN
17215	47583	B	17320	310	1047	
17216	47584	A	17321	1	1101	
17217	47585	A	17322	577	735	
17218	47586	A	17323	337	642	
17219	47587	A	17324	2	653	
17220	47588	A	17325	2	935	
17221	47589	A	17326	532	729	
17222	47590	A	17327	1	675	
17223	47591	A	17328	1	684	
17224	47592	A	17329	2	641	
17225	47593	A	17330	1	808	
17226	47594	A	17331	562	675	
17227	47595	A	17332	2	1687	DTGNNEWKQQEGLSHNNWLG LGCLFGPETPIFYPATLGHTSSIY YERKKEDKNGMKEEHDTVA MFFTLFNFQISVENIRKGPVV GESIAQSYLNVVQEIFRSRHHQ LLQDLTRDLCDNLKTCHTSHGS VMAETAVINHKKRKNSPRIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKQRSNLGVRLYAC CGLLCPAYPQHFAHGYVDKIP GYPGRAGTLTGLHPMQVCRCR RQAPCMKSNNALIVILGTVTLD AVGIGLVMPVLPGLLRDIVHSD SIASHYGVLLALYALMQFLCAP VLGALSDRFGRRPVLLASLLGA TIDYAIMATTPVRGHSVLKKGKQ HKSVENLQPDNVIEKKIPFSGEK FKPAAEICKSNRELVNHNQDNG ENVSRAQCRPLLQPLPSQAWRF RRKNWFCGPGPWSPFSVQSRD LVPCVPAAPALTKRGQGTAA VASEGGSPKPWQLPHGVEPAG AQKSRAEVWEPPPRFQKM
17228	47596	B	17333	12	60	
17229	47597	B	17334	253	2103	

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17230	47598	A	17335	469	2512	PTSAYERGQRFASRLQMNLL FLRWLMKIFPQAPCMKSNN LIVILGTVTLDAVGIGLVMPVL PGLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDFRGR RPVLLASLLGATIDYAIMATTP VLWIYPLVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGHIEN NDYTLKKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDSRGS KMTIDGIKLNDIYMLGFVSNSL TGPYKPLNKTGLVLQMVLDPN DVTFTNFYLPGPQAKANMWLL QAHDKKSF SRIKGTFGPAL
17231	47599	A	17336	2393	2945	
17232	47600	A	17337	980	1732	

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17233	47601	A	17338	1	2400	GRPFPRPPRLCQRRLRGGRMK MTGDFEECLKDSPRFRAALEEV EGDVAEELKLDKLVKLGAMI DTGKAFCVANKQFMNGIRDLA QYSSNDVVETSLTKFSDSLQE MINFHTIL/L*PNSEINLRHSFSN FVKEDLRKFKDAKKQFEKVSE EKENALVKNAQVQRNKQHEVE EATNILTATRKCFRHALDYVL QINVLQSKRRSEILKSMLSFM YAHLAFFHQGYDLFSELGPYMK DLGAQLDRLVGDAAKEKREME QKHSTIQKQDFSRDDSKLYNV DAANGIVMEGYLFKRASNAFK TWNRRWFSIQNNQVVYQKKFK DNPTVVVEDLRLCTVKHCEDIE RRFCFEVVSPKSCMLQADSEK LRQAWIKAVQTSIATAYREKG DESEKLDKKSSPSTGSLDSGNE SKEKLLKGESALQRVQCIPGNA SCCDCGLADPRWASINLGITLCI ECSGIHRS LGVHFSKVRSLTLD TWEPELLKLMCELGN DVINRVY EANVEKMGIKKPQPGQRQEKE AYIRAKYVERKFVDKYSISLSP PEEQKKFVSKSSEEKRLSISKFG PGDQVRASQSSVRSNDSGIQQS SDDGRESLPSTVSANSLEYEP GERQDSSMFLDSKHLNPGLQLY RASYEKNLPKMAEALAHGADV NWANSEENKATPLIQAVLGGS LVTCFELLQNGANVNQRDVQGRG
17234	47602	A	17339	1	782	
17235	47603	A	17340	1	475	
17236	47604	A	17341	1	852	
17237	47605	A	17342	432	696	
17238	47606	A	17343	3	296	ETEIEALKEELLFLKKNQEEV KGLQAQIAISGLTVEVDVPK SQDLAKIMADIWAQ*DELEDGED FSLRDALDSSNSMQTIRKTTTR PIVSGWQSGV
17239	47607	A	17344	2	292	SQKKGLVGALTLNPPHFCPCHL *EVKGLQAQIASSGLTVEVDAP KSQDLAKIMADIRAQYDELAR KNREELDKYWSQQVREGKGM GCQGVGGRQTE
17240	47608	A	17345	1	908	

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17241	47609	A	17346	1	1452	TGPEFHDRLRVRRRPQSLSPVL LLSSPDMSFTTRSTFSTNYRSL GSVQAPSYGAGPRRAARPASY AGAGGSGSRISVSRSTSFRGGM GSGSL\ATG\IAGG\LAGMG\GIQ NEKETMQSLNDRLASYLDRVR SLET\ENRRL\ESKIRE\HLEKKG PQ\VRDWSHYFKI\IEDLRA\QIF\ ANTV\DNARIVL\QI\DNAPSCVR DDFR\VKY\ETELA\MRQSCWRT DIHGAPQGPFDNTNYHTDLQL/ EKTEIRGSSRRELLFQ*RRNHEE /EKLKGLQAQIAQFLGLTRGRL DCPQIFRDLRQDSWADIRGPIID ELASEEPRGSLDKY\WSQQ\NEE STTVVTTQFAEVEAAETTLTE LRRTVQSLNDLDSMRNLKAS\ LENSLREG*RPAYALQ\MEQLN GI\LLHLESELAQTRAEGQRQA QEYEALLNIKVKLEAEIATYRR LLEDGEDFNLDALDSSNSMQ TIQKTTTTRRIVDGKVVSETNDT
17242	47610	A	17347	467	843	
17243	47611	A	17348	114	1363	
17244	47612	A	17349	2	281	
17245	47613	A	17350	1	588	
17246	47614	A	17351	184	354	
17247	47615	C	17352	391	657	
17248	47616	A	17353	1	2010	
17249	47617	A	17354	2	443	VPDLPPSHRGFRAAQGGLPPKN KVAALPSWGSANQNSSARWEL VSPPIHRGGS*GPGETGDLDGSS IQRAVELRLVQAFVVPKSSLRD PSREGRGGWAG*VQTKGA*AR PTLLWAPKR/DRGGKAAPTSTW NSPKAGCPSARSSPAPP
17250	47618	A	17355	1	1359	
17251	47619	A	17356	260	380	
17252	47620	A	17357	153	273	
17253	47621	A	17358	270	484	AKYRGTGSSRKALGAHWVPKQ PIPAWQH KDPSGGRPEEQGVKL YREKEFSS*TL*/RI*TGPDAWA YAWADAW
17254	47622	A	17359	2	941	
17255	47623	A	17360	1	615	
17256	47624	A	17361	911	1472	
17257	47625	A	17362	2	442	
17258	47626	B	17363	76	235	
17259	47627	A	17364	38	190	
17260	47628	A	17365	134	523	
17261	47629	B	17366	1	1776	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17262	47630	A	17367	394	554	
17263	47631	A	17368	22	831	
17264	47632	C	17369	1	1191	
17265	47633	A	17370	199	647	PSVPTEGSRNRTTAVAVEERQS DGSGSLSPGKLQTTTTGII\PALL HITGAPVSSDFRLDWLIERPKG GRRaelSIRSLALPLQHCGSD NDWIPLQLRLLSRASFHSDDDL GFGAYRRLALHILCIHSSKEALE LNTFQPVTFLNAFSK
17266	47634	A	17371	1	2697	
17267	47635	B	17372	25	1698	
17268	47636	A	17373	2	218	ASLRSSPFSRSLRCQGKNTPEERS GLPKALFCTKPSR\ADLGPAGH RRPLPSVQPG*AIPGRVSRGEKN LTNR
17269	47637	A	17374	2	2543	
17270	47638	A	17375	198	403	PQALREHSPSV*TGRQDRQLLF KDCTCQRQRDDVDSVQGKRRL HISSPQGLNSFPAVSLKLEHNV KAE
17271	47639	A	17376	58	543	VLYRSSRMCRKIRVLISRPFSIV KICERVLSQTSQGRHDYAAAA VSKTGQKRIHSSGTRGSGAPHS PGWWEPSDRVGVSICFLFLK YRLFSSCLVQPCLGPVLGNNSC SPEGPREPSPPSHGLGFPKMCT* TQVPASTTQSDNGQNHPNPGCP MPISPDs
17272	47640	A	17377	14	701	
17273	47641	A	17378	91	309	GRKQFPHLATGKEGCVGGQRL PCVTVELIFPAPAGAAVPRRP*L PRTAPS*LHCLPVCRRMPGEAPT ARHAAWV
17274	47642	A	17379	2	2625	
17275	47643	A	17380	1	1752	
17276	47644	A	17381	3257	3412	
17277	47645	A	17382	1	1091	
17278	47646	A	17383	233	1148	
17279	47647	A	17384	1	1716	
17280	47648	C	17385	162	356	

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17281	47649	A	17386	836	2106	AKKFRKRWPLEEQQNVDPDGG AAPVTALRKRVTSQRCSLEFLE DAVGCAPAQRYTPPSAPSTTP LGLPLT/TCGARGSWEEKSDLC PLPCRTKHTSGSPRHKGLKKTH FIKNMRQYDTRNSRIVLICAKR SLCAAFSVLPYGEGLRISDLRV DSQKQRHPSGGVSVSSEMVFEL EGVELGADGKVVSYAKFLYPT NALVTHKSDSHGLLTPRPSVP RTLPGSRHKPAPTKSAPASTEL GSDVGDITLEYNPNLLDDPQWP CGKHKRVLIFASYMTTVIEYVK PSDLKKDMNETFREKFPHVKLT LSKIRSLKREMRSLSEECSELPV TVAMAYVYFEKLVLQGLIKQ NRKLCAGACVLLAAKISSDLRK SGVTQLIDKLEERFRFNRRDLIG FEFTVLVALELALYLPENQVLP
17282	47650	A	17387	1	2531	
17283	47651	A	17388	1	1506	
17284	47652	A	17389	34	576	
17285	47653	A	17390	112	1840	EELRVREHVTGGICGGSQMMV DLLGATTLELVAVAPWVMSAA AGGKNLKSPhKVEVDIIDDNFI LRWNRSDSVGNVTFSDYQK TGMDNWIKLSGCQNITSTKCNF SSLKLVYEEIKLRIRAEKENTS SWYEVDSFTPFKAQIGPPEVH LEAEDKAIVIHISPGTKDSVMW ALDGLSFTYSLIWKNSSGVEE RIENIYSRHKIYKLSPETTYCLK VKAALLTSWKIGVYSPVHCIKT TVENELPPPENIEVSVQNQNYV LKWDYTYANMTFQVQWLHAF LKRNPGNHLYKWKQIPDCENV KTTQCVFPQNVFQKGIYLLRVQ ASDGNNTSFWSSEEIKFDTEIQAF LLPPVFNIRSLSDSFHIYIGAPKQ SGNTPVIQDYPLIYEIIFWENTS NAERKIIKKTDVTPNLKPLT VYCVKARAHTMDEKLNKSSVF SDAVCEKTKPGNTSKIWLIVGI CIALFALPFVIYAAKVFLRCINY VFFPSLKPSSSIDEYFSEQPLKNL LLSTSEEQIEKCFIENISTIATVE ETNQTDEDHKKYSSQTSQDSG NYSNEDESESKTSEELQQDFV
17286	47654	A	17391	3	373	

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17287	47655	A	17392	1	432	LPRFVGQQPRPLGRLRGSGSEG CRAPGEAVRAPDYAFPIPGTRA S/PLNRFPLGGTAWPQAHPTNP KPAPAPGAQLDDPPRYSRHGLS RWGLPLQSLVLLPPLQRPMPLPQ AAPNTPWWPWTLRAGRREN AHAQRKLHLWAGKVE
17288	47656	A	17393	98	376	
17289	47657	A	17394	1	364	
17290	47658	A	17395	1	1230	
17291	47659	A	17396	892	2004	RRMSFMSSEVLVGELMSPFDQS GLGA\EESLGLDDYL\EVAKHF KPHGFSSDKAKAGLLPNGLA\ DGLVSPSNNSKE\DAFSGTDW DVGRKWVLKEFDGCPCLGIE* PWETIARLTFLTTFGIDICDSSLP P*FQGRLIKAAPRRLNPIC\HLP QKFLTKPRPGLAPFTFLQPL\PL SPGVL\SSTPDSFPFSFRSWGS*K WDIH*KGD*/RKPDYTAYVA\MI PQCIKE\EDTPSD\ND\SGICMSP ES\YLGSPQHSPSTARSGPNRSLP SPGVLCGSARPKPYDPPGEKMV AAVKGEKLDKCLKKMEQNK TAATRYRQKKRAEQEALTGEC KELEKKNEALKERADSLAKEIQ YLKDLIEVRKARGKKRVP
17292	47660	A	17397	43	1300	DSCCIQGTMLRSRTQQRPGVEG SLKQHQR LHSNFSSINESVFIVS FSLNTIGSGGRGAEGEP/GREPL SRPQPPAGPLGGALPAPP/SLMP QL*SE*GRLQLLYLLLQ/PAVC SCSRCSAPRSRCVARPAARTGL PTPAPASSP/CSRSLSSSRSLSSSC RVSCCHSLSSCCRSLSCSRSSST SSRSSSTSSSSLSSSLSCSSCRL SCSNSFSTSSSSLSSSLSCSSC CLSCSNSFSTSSSSLSSSLSCS SCRLSCSNSFSTSSSSLSCPGSFS CSHSLSSCSRSLSSCSHSLSSCSR SLSSCSHSLSSCSRSLSSCSHSL SCSRSLSSCSHSLSSCSRSLSSCS CSLSSCSRSLSSCSHSLSSCSHSL SSCSRSLSSCSCSLSSCSRCLSSC SCSLSSCSRSLSSCLLFRRLNI
17293	47661	A	17398	288	574	

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17294	47662	A	17399	230	648	VIAPGLWMMAADIPRVTTPLSS LVQVPQEEDRQEEVTTMILED DSWVQEAVLQEDGPESEFPQS AGKGGPQEEVTRGPQGALGRL RELCRRWLRPEVHTKEQMLTM LPKEIQAWLQEHREPESSEAAA LVEDLTQTL*DSWVQEAVLQE DGPSEFPQSAGKGGPQEEVT RGPQGALGRLRELCRRWLRPE VHTKEQMLTMLPKEIQAWLQE HRPESSEAAA LVEDLTQTL
17295	47663	A	17400	105	381	SSGFWPLRFPLDVIKAVSTIAVH EKEESLWPRVAVFSTLAP/ESPP WGEAPQSAGR*SGVPEDHVHL RYRGTLSLACSSSRHHPPAQLS HYKN
17296	47664	A	17401	1023	1915	
17297	47665	A	17402	3	277	QVLLQGALLLLITVAQAGRVLK LGVSREFQDLLILWGKETFR/C PGPCSPALHLQPGSSIP/SSQQLL *YLAAEQPQLHRGPPRTAPVVS GAE
17298	47666	A	17403	3	299	
17299	47667	C	17404	46	398	
17300	47668	A	17405	171	403	GKNSTLQQFNNLLHYSSITVAV NNPTLGNSVSVFPLYILFTGIHQ LVKVILRKLK*RFGLELASLSL LFLPPVSLF
17301	47669	A	17406	291	467	
17302	47670	A	17407	2	395	DHAYVFLGRTACYLMKAYRK VNPRVIFSSNTIETHPKDLLHSC DHPFAEKTQFTVSTLDDVKNSG SIRDNYCRTSEISAVHIDTECVS VMLQAGTPPLQVK*RKNFQQR KQG*KMKWDPSDISNSMAEVL
17303	47671	A	17408	1	149	EKEIPGPWLLGAMRFRFCGDLD CPDWVLAEISTLAK\IPL*SCGCS AARY
17304	47672	A	17409	555	1156	QFYNKTPSRSECPNLLHHMRTE GPPGGVDQPDGHQAGWPPPEP AGQQRGRQSGCHLLQGGASPR PSCGTVHARACTPPASCPPCHR YRSHLQRGKWWPK/GLPQHTR LDHTEVLGAAEGSTVSAPSAT RAARDHVRRLQTRKCFCKGAL LLLITAARAGRVLFGQPQLLQF TGQGFAIDTVLGRGTGEDETQHC HCGLHIA
17305	47673	A	17410	3	366	
17306	47674	A	17411	408	1702	
17307	47675	A	17412	1	2661	

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17308	47676	A	17413	2	2288	
17309	47677	A	17414	1	1992	MGDFNTPLSTLDRSMRQKVNK DIQELNSAVHQVDLIDIYRTLHP KSTEYTFFLAPHRTYSKIDHIVG SKALLSKCKRTEIIRNCLSDHSA IKLELRINKLTQNCSTTWKLNN MLLNDYWVHNEMKAEIKMFF ETNENKDTTYKNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQFKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFEMISKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTEIQT IREYYKHLAIAKLENLEEMDKF PYTNTLPRLNEEEEIESLNRITGS EIEAIIKSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKP/DVGSSS QGNQAGERNKGYSFRRKRSQI VPVCR*YDCTFRKSHFLSPKSP* ADKQLQQSLRIQNQC AKITSIP HHQQTNRPNHE*TPIHNC FKE NKIPRNPTYKGCEGPLQGELQT TAQ*NKKGHKQMEEHSM LMD RKNQYRENGHTAQGNLQIQCH PHQATNDLHRIGKNYFKVHM EPKKSPHCQDTPKQKE*SWRH HAT*LQTLQGYSNQNSMVLVP KQRYRPM EQNRALRNN TTHLQ QSDL*QT*QKEEMGKGFP I**M VLGKLASHM*KAETGSLLYIL
17310	47678	A	17415	1	1677	

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17311	47679	A	17416	1	2178	MGDFNTPLSTLGRSTRQKVNK DTQELNSALHQADLIDIYGT LH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNCLSDHR AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKEKRE KNQIDATKNDKGDITDPTIEIQ TTIREYYKTLYANKLENLEEMD KLLDITYTLPRLNQEEVESLNRPI TGSEVVAINSLPTKNSPGPDGF TAKYYQRYKEELVPFLKLFQS TEKEGILPNSFYEASHILPKPGR DTTKKENFRPISLMNVDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNICKSINVIQHINRT KDKNHMIISIDAEKAFDKIQPF MLKTLNKLVLVLAIRAEKE IKGIQLGKEEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWIGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRARITKSILSQKNK AGGITLPDLKLYYKAIVTKTA WYCYQNRDIDQWNRTEPSEIM
17312	47680	A	17417	1	1770	
17313	47681	A	17418	1	1101	
17314	47682	A	17419	1	1614	

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17315	47683	A	17420	1	1878	MVLALTGNKADLASKRPLEFQ EAQAYADDDSWLFMETSAG AMNVNEIFMAIAEKLPKNKPQ NAAGAPDRNQGYLSACEFSGR KLPKQTTKHIKQSLRTKLCGAS YASSNLIPRKLYEPPLVIPRKTG SGVDLQQTPDQLWVLTVRR KSNKQKGYPHQNPICMLPSSKT KDFKPTKIKRDKDGHYIMVKG SIQQEELTVLNINAPNTGAPRFI KQALRDLQRDLDSHTIIMGDFN TPLSTLDRSTRQKVNKDIQELN SALHQADLIDIYRTLHPRSKDY TFFSAPHHTYSKIDHIVGSKALL AKCKRTEITRNCLSDHSAIKLEL RIKKLTQKCSTTWKLNLLND YVWHNEMKAEIKMFFETNENQ DTTYQNLWDTFKA VCRGKFIA LNAHKRKQERSKIDILTSQLKE LEKQEQTHSKASRRQEITKIRVE LKEIKTQKTLQKINESRSWLFE KINKIDRQLARLIKKKREKNQID AIKNDKGDITDPTEIQTIREY YKHL YAKKLENLEEMDKFLDT YTLPRLNQEEVESLNR PITGSEI EAIKSLPAKKSPGPDGFTAIFY QRCEKELAQFLRLFKSTEKEGI LPNSFYEDSIL/ILPKPGRD TT KENFRPISL
17316	47684	A	17421	1	1761	
17317	47685	A	17422	1	1875	
17318	47686	A	17423	1	1611	
17319	47687	A	17424	1	4539	
17320	47688	B	17425	1	6294	
17321	47689	A	17426	2	1913	
17322	47690	A	17427	1	1026	
17323	47691	A	17428	1	2112	

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17324	47692	A	17429	1	1884	MENGFDLREEGFRRSNYSELQ EEIQTGKKEVKNIEKNLDECITR IPNTEKCLKKLMELKTKARELR EECISLRSRCDQLEESVSVMED EMHEMKREGKFREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPED RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELKIKKLTQ NFSTTWKLNLLNDYWVHN KMKAIEKMFETNENKDDTTYQ NLWDTFKAVCRGKFIALNAYK RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNQIDAIND KGDITDPTIEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPL NQEEVESLNRPTGSEIVAIHSL PTKKSPGPDGFTAQFYQRYKEE L/RNKIPRNPTYKGCEGPLQGEL QTTAQGNKRGDKQMEHSML MGRKNQYRENGHTAQGNLQIQ CHPHQATNDFLHRIGKNYFKV HMEPKKSPHRQVNPKEQSW RHHAT*FQIILQGYSNQNMSVL VPKQRYRSMEQNRALRNNATY LQLSDL*QT*EKQAI
17325	47693	A	17430	1	1695	
17326	47694	A	17431	1	3779	MELKTKARELREECRLSRNRN QLEERVSADEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
17327	47695	A	17432	1	735	
17328	47696	A	17433	1	2541	
17329	47697	A	17434	1	1461	

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17330	47698	A	17435	2	429	AACAAAMSLVIPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLRKADIDLTKRA GELTEDEVERVITIMQNPRQYKI PDWFL
17331	47699	A	17436	1	615	
17332	47700	B	17437	264	556	
17333	47701	A	17438	1	406	FFFFLQKVGIIYLIHKTFFQQRHL WVTSA AFLSLSSMAAVGTSSSL SENSGPGHGGKQTF*GP/EGTDI PEGRHHFSAQAFSVVAGRGT AALLHGSHVPQGRSRIGSRSGG PPSHPDTCGSSHSAGRSCPHSC TG
17334	47702	A	17439	3	3484	
17335	47703	B	17440	42	367	
17336	47704	B	17441	203	382	
17337	47705	A	17442	22	266	YRDLPHFLNLSLIFNMSTSLRE TMILIRTLRVPL/PLHGVIQPI KIQGLVLNALNQVQESIFQVSF NLFPAFQHVIRA
17338	47706	A	17443	1	1137	
17339	47707	A	17444	1218	1482	QSPWPSLLRGDVSITPNLIFSC SIGWPFCLV/SFC*PKK*TFQGV GSEVYDVKHFASCVLCHKQMN KLNLYFRNTYFVALLSTELFEN
17340	47708	A	17445	2	377	
17341	47709	A	17446	1	211	
17342	47710	A	17447	2	732	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDDL ATSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTTQP VAYLSKETDVAACKGPLTAILL LAFGPCIFNLLVKLVSSRIDAIK LQMVLMQEPQMSSTNNFYRGP

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17343	47711	A	17448	1	3003	MPGAQDLQPTMPEPPHPQWAP TWPEPPRRVPPPAPRRPVPLTA QGLSVDQSRLGKFSDDPDYID VLQGLGQTFDLTWRDVMLLLD QTLAFNEKNAALAAAREFKDT WYLSQVNDRTAEERDKFPSG QQA VPSMDPHWDLSDYGDW SHKYLLTCVLEGLRRIRKKPMN YSMMSTITQGKEENPAFLEQL WEALRKYIPLSPKSLEGQLIKD KFITQSAADIRGKLQKQSLVPE QNLEALLNLATSVFYNRDQ
17344	47712	A	17449	5	624	IQPILAYPHPKTLKQLWGFLGIT /GFCPVWIPRCSKIAKSLYTLIKE TQRANTHLVEWEPEAETAFTK LKQALVQAPTLSLPTGENFSLY VTERAGIALGVLTQTRGTTQP VTYLKDGEPMKCDCQQIIVQTY ATQDDLLEVPLANPDNLTYTD GSSFVENGIRRAGYAIVSDVTIL ESKPLPPGTSQAQLAELVALTRA LELGKGKE
17345	47713	A	17450	636	2628	SNDRTEDDCGKHPFMSSPP\TEP WVCLIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKD
17346	47714	A	17451	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDLALL ATSSEASCQATLDLLNFLANQ GCKRVGIALGVLTQTHGTTQP VAYLSKETDVAAK

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17347	47715	A	17452	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQTWTVFTQGFMDTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQATLDLLNFLANQGY KLSKLKAQLCELLVFSSCARMH
17348	47716	A	17453	1	369	
17349	47717	A	17454	1	1632	
17350	47718	A	17455	636	1837	SNDRTEDDCGKHPFMSSPP\TEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRLLSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEEAEW FTVLDLKDAFFCIPLHSDSQFLF AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETAfetLKQ ALVQAPALSLPTGQNfALYVIE RAGIALGVLTQTHRTPQPVAY
17351	47719	A	17456	2	52	EISFVENGIQRAGYAIVSDVTVL ESKPLPGTSAQLAELVALTRA FELGKGKRINANTDSKYAYLIL HALAAIWKEREFLISGGTPIKYH KEIMELLHAMQKPKEVAVLHC QSHQKG*EWDTKGRLCHS
17352	47720	A	17457	1625	2505	PGVQKP/GQWRLVQDLRLINEA VIPLYPVVPKPYTLFSQIPKEAE SFTVLDLKDAFFCIPLHSDSQFL FAFEDPTDHTSQLTWTVLPQRF RDSPHLFGQALVQDLGHFSSPG TLVLQFVDDLLAASSEASCQQ ATRDLNFLANQGYKASKSKA QLCLQQVKYLGLILARGTRALS KKRIQPILAYPRPKTLKQLRGFL GITSFCRLQIPGYSKMARPLYTL IKETQRANTHLVEWEPEAETAf KSLKQALVQAPALSLPTRQNfS LYVRERAGIALEVLtQTHGTTL QPVAKG
17353	47721	A	17458	1	2415	

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17354	47722	A	17459	2646	5167	KNSGHILGTCPGYRYAKGKET GKEIKGPQNPPGYRLCPLQAV GGGEFGPTQVHVPFSLSDLKQI RVDLGKFSDDPDRQYPLRPEAH EGLQDILRYLKVQGLVRKCSSP CNTRILGVQKPKGQWRLVQDL RFINEAVIPLHSVVPNSYTLSSQI PEEVEWFTVLDLKDFFCIPLH SVCQFLFAFEDPTDIITSQFTWT VLPQGFRDSPHLFGQILAQDLG HFSSPGTLVIQYVDDLLLATSL EASCQQATLDLLNLLANQGYK ASKPKAQLCLQQVKYLDLSLA RVTRALSKERIQPILACRPKTL KQLRGFLGITNFCQLWIPGYSE MARPLYTLIKETQRANSHLVER EREAEATFKTLKQALVQALALS LPTGQNFSLYARERAGIALGILT QTHGTPQPVTYLRKLIYSFVE NGMRRAGYAIVSDVTVPESKPL PPGTSTQLAELVVLTQALELRK KKRINVNTDSKYAYLILHAHAA IWKEREFLTSGGTPNKYHKEIM ELLHAVQKPKEVAVIPCQSHQK GEEK/EAEGNRRADAEEAKIAA RRNLPTEIPMEGPLVWNNPVQE IKPQYSLKTEWGLSQGHSFLP LGWLTTLLEGKAGRATPNPRNV YFPLHLRGLRTGRLPLSQSTRA QEMTLVRPRPSSSPPEKAAEG RGRRCSETKLRHRRFLRPLRTP LCATAPLAASVA AVLAAAPAA
17355	47723	B	17460	1	2208	
17356	47724	A	17461	2	168	
17357	47725	A	17462	890	1034	
17358	47726	A	17463	386	619	TFITGDCLGTKN/HIFDGCGLVLS EVGLVLDCSNQRFKAGPA*LCQ SPFKNIL*ESLPMCMCRQLEKH AHPQGLCHTQVT

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17359	47727	A	17464	123	2169	DLGHRGSREMASVA\LEDVAV NFTREEWALLGPCQKNLYKDV MQETIRNLDCVGMKWKDQNE DQYRYPRKNLRCRMLERFVES KDGTQCGETSSSIQDSIVTKNT LPGS/VGPYESRMSGEVIMGHSS LNCYIRVGAGHKPHEYHECGE KPDTHKQRGKAFSYHNSFQTH ERLHTGKKPYDCKECKGSFSSL GNLQRHMAVQRGDGPYKCKL CGKAFFWPSLLHMHERTHTGE KPYECKQCSKAFSFYSSYL RHE RTHTGKPYECKQCSKAFFPYS SYLRHERHTHTGKPYKCKQCS KAFPDSSSLIHERHTHTGKPYT CKQCGKAFSVSGSLQRHETTHS AEKPYACQQCGKAFHHLGFSQ RHMIRHTGNPHKCKICGKGF DCPSSLQSHERTHTGKPYECK QCGKALSHRSSFRSHMIMHTG DGPHKCKVCGKAFVYPSVFQR HERHTAEKPYKCKQCGKAYR ISSSLRRHETHTHTGKPYKCTLG KAFIDFCSFQNHKTHTHTGKPY ECKECKGAFSRFRYLSRHKRTH TGEKPYECKTCRKAFGHYDNL KVHERIHSGEKPYECKECKGAF SWLTCFLRHERIHMREKSYECP QCGKAFTHSRFLQGHEKTHTG ENPYECKECKGAFASLSSLHRH KKTHWKKTHTGENPYECKECKG KAFASLSSLHRHKKTHWKKTH
17360	47728	A	17465	1	1317	
17361	47729	A	17466	1	336	
17362	47730	C	17467	51	353	
17363	47731	A	17468	190	348	YAIHIMDVHTVRSLYYFNCFRY *ACYCCHYLTDIPEITKLSGCSY GGTSLIWG
17364	47732	A	17469	1	1716	
17365	47733	A	17470	1	840	
17366	47734	A	17471	699	1283	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTTPPHCSFSICFVI C/FKNVDLKGFEVDVRILLTKYS NSNGSQSPWMEEQIRDAGERV HSAFSLNWGKPLVFEKDRPYSV SVFIGLFLPMAEKTGPLKGNPG GEFLLFLRQIQLVWLPAAAGIMT EHYFPITATQALEINNAISTIMEI FPTVSFASQWITASFSV
17367	47735	A	17472	300	461	
17368	47736	A	17473	1	2451	

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17369	47737	A	17474	2	3542	
17370	47738	A	17475	1	1156	
17371	47739	A	17476	1	1176	
17372	47740	A	17477	1	257	
17373	47741	A	17478	295	1353	
17374	47742	A	17479	3	1772	
17375	47743	A	17480	2	284	
17376	47744	A	17481	1	141	
17377	47745	A	17482	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMYGLFHFGVMMDQ QPQSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPPSSGVCCGFVTLFCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMYGLFHFGVMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
17378	47746	A	17483	1	741	
17379	47747	A	17484	1	993	
17380	47748	B	17485	277	416	

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17381	47749	A	17486	686	2400	TGMSVDEKPDSP\MYVVESTVH CTNILLGLNDQRKKDILCDVTLI VERKEFRAHRAVLAACSEYFW QALVGQTKNDLVVSLPEEVTA RGFGPLLQFAYTAK\LLLSRENI REVIRCAEFLRMHNLEDSCFSF LQTQLLNSEDGLFVCRKDAAC QRPHEDCENSAGEEEEDEEETM DSETAKMACPRDQMLPEPISFE AAAIPVAEKEEALLPEPDVPTD TKESSEKDALTYPRYKKYQL ACTKNVYNASSHSTSGFASTFR EDNSSNSLKPGLARGQIKSEPPS EENEEESITLCLSGDEPDAKDR AGDVEMDRKQPSAPTPTAPA GLCLERSRS/GNYGQPH/VGQK EVSNFTMGS/PLRGPGLALCK QEGELDRRSVIFSSACDQVSTS VHSYSGGARFLATEHQEPGLM GDGMYNQVRPQIKCEQSYGTN SSDESGSFSEADSESCPVQDRG QETGSTSDLRLSTKLQSCSGPM FKGPTATVAATESWGTVLQNIP LGCAGTGEEVITYTNPPPRGRAA LVPRSPLTVYSSSLPEHQTSCLKQ CAQAGPGVCLLVHNHWQLLEG
17382	47750	A	17487	1	1089	
17383	47751	C	17488	295	348	
17384	47752	A	17489	1	711	
17385	47753	A	17490	1	1248	
17386	47754	A	17491	135	259	
17387	47755	A	17492	434	506	
17388	47756	A	17493	3	227	
17389	47757	C	17494	3	236	
17390	47758	C	17495	25	153	

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17391	47759	A	17496	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGSRMTVDYCKL NQVVTPIAAAVPDVVSLLEQIN TSPDITLVHYIDIMLNGSSEQE VTNTDLLVRHLCATGWEINPT KIQGSSTSVKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRKYIPYLGVLCC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGYPDPAGP MVLEIAVADTEAVWGH/WHSA SFPSHPCHCPMGP*TKWP*WQG WRLCMGSATWTSTHEG*PGYG HQ*VPNLPAETNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AE\HLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNNSIK L*VKIATWTLWAPPTSKL
17392	47760	A	17497	2	1120	PSKVKEKLLHLAPPTTKKEAQR LVGQLGFWRQHHPHGLALLWLI YQATQKAASFEWGPEQEKALQ QVQVAVQAALPLGYPDPADPM VLEVSVAARDVAVWSLWQAPIG ESQQRPLGFWSKALPSSTDNYS/ CFRCAIHY*FMGCCQ*FGWIVRD LEEA*LENW*QRNLGKRYVDG PL*VVKNNWKDICIPCECSPTGDL SRGGF**SSG*DDPFCGHHSASF PSHPCCRPMGP*TKWPWWQE* RLCMDSATWTSTHQS*PDYSH C*VPNLPAETNTETSIWHHFS G*SASYLLAG*LH*TSSIMEKAE VSPHWKNSLWIWVCLSSMQC FCQDYHPWTHSMYPPLSWYST QHCLSLQRERHSLYR*RSAAVG ACS
17393	47761	A	17498	1	1908	
17394	47762	A	17499	1	915	
17395	47763	A	17500	2	670	
17396	47764	A	17501	1	1332	
17397	47765	A	17503	151	674	
17398	47766	A	17504	1	825	
17399	47767	A	17505	134	447	
17400	47768	A	17506	98	778	

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17401	47769	A	17507	1	830	MHCFIFSAAWFCLWSISLHLV ERPDMVLLFPFGLRLGLMLQ CPRGYWPVLLGAEWLLIYWLT QAVGLTHFLLMIGSLLTLLPV ALISRYRHQRDWRTLLQGA LTAAALLQSLPWL RHGKESWN ALLLTLTG/EPDAGPDMSGVLA LSRQ*HLAAARSVTGFSANQLA RATSGLVLAAVCYQSLAPVGIA GRTVALYAILSGAADYRAGLA LWLARGADCDVDERHRADRH QSWRDLPWTYCSGDCDSRHGA QGQKARAPPKHDQFPHAIFRG
17402	47770	A	17508	2252	2772	RSKTTAFTPLRVRTSAHARPAG PAPIIATFLPVCFTPDISGRQPI SN ALSLI*RSMLPMVTAPNSSFRV QEPS/SQTVLRADSSANFRQGV GLVRQFRFRKNTPLVGELQPVR DVVVYRAFPLAVWVAARQAA VSLRFGLAFGKRLVNFNKLNFA DLQRFLWRINALQVDKLITF
17403	47771	A	17509	539	1077	
17404	47772	C	17510	192	396	
17405	47773	C	17511	10	294	
17406	47774	A	17512	2	379	KRPGSGITEATSSRRQRPTRLQ GQLPGQEKRVLKATEGIANPS WGWGGAVSPLRASLTSLRHKI NNHYNTENWKLPIKDS\HLIPSP QAPSMPPPLANPPWAPHPREK MWNPQIQGTNCIWWCGP
17407	47775	A	17513	291	590	
17408	47776	A	17514	187	589	VLSFLIHRWEGDKDSSLGPNFS QTPQPSRRFICAFWENPS*EPS YPSISDPGFLILLPSKGDVWIHL GPIFSKKPLY*SSFLVIFYPVTP SFLFLGYKFPLAHAVFRVEPTLS LLIQNSHCHGCYTPDGPE
17409	47777	A	17515	1509	1748	IGVVREGIPVLCFLSKGMLPVF AHSV*YWLWVCHR*LLLF*DTS HQYLIY*EFLA*SVVDFCQRPFL HLVLDFFWLVS
17410	47778	A	17516	152	568	CQLELSCKMCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIEHGMFFSLSVSSFVSL

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17411	47779	A	17517	152	568	CQELSCMKCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIHEHGMFFSLSVSSFVSL
17412	47780	A	17518	152	479	CQELSCMKCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGCPHTLQA
17413	47781	A	17519	1	474	
17414	47782	A	17520	1326	1712	FLYVIKALGKKQLQFGQQILIPS IELLDYLINPGSGCVSLWKLNK PQYCYLIHFSGLTELSWKVHTIL LEGHYEFLEYAADR*PICLFSW KERQLVSFLDYSLHHLLGSFYV VFFFLYLLVRLCWDL
17415	47783	A	17521	18	236	
17416	47784	A	17522	281	1005	TGWSPLQLSKATVARLPLWIPP LWAGHLGELWLASGEYPSGLK LPEEGTGSNLRCSAASAGDTQA NRVWSGPAANFSRPAAEPAF HALRGPSVHCSPLCVHEFSSFSS LISENMQYLVFCSGVRFLRIMVI SSIHILCLVPKRTRVLGRLSLTC FRFLRGPKPRITIPHSSAPPLGH VIAIPLP*SMKPSPEADAPMTG SFLKSPSEADTGATLPVQSVVPI PLSILPILEVGGVLF
17417	47785	A	17523	1	1524	
17418	47786	A	17524	881	1108	SRKMGAPNA**SAWSWSREGL AAP*SMFSSLSADSSADCKLPE GKVQPASSTGLTARASKDLYFC CCFSISARAS
17419	47787	C	17525	1	867	
17420	47788	A	17526	203	514	SSSTARPSQTSSAEESPTSWYRG DNPSKPMDDLAVGVFGAIVGA ASVLGNAPLDGIETGCGAWSST NAEHTGLWLQILRKEGLKDL*N GTVPRLGRWTASPWM

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17421	47789	A	17527	1	1578	MAKKEQLLSAAPSKTNAEGQEIPSGVYTTRALGFKHKTGQPFQGPSYPQEFILYTNDTWNASKTEPFTPLERGLKPGSQESSGWHLVGTPLGRSFQRKEQAAIFAVLQPLVIPRQTGSGVDLQQTPTDLQKRVLTVRRKTNSININKKDDHAKTTSKGHQQRPKVDKSTKMRKNQCKKATNSKNQNVSSPPKDHNSSTAKEQNWMENEFDKLTEVGFRSSQFDQVEERISDIEDKLEIKHEDKIREKRMKKKEQSLQEIWEYVKRPNLRLIGVPESDGENGTKLENTLQDTIQENFPNLRQANIQIEIQRTTPQRYSSRRATPRHII/E*IHQG*NEGKTVKGSQREK*GQEIPSGVYTTRALGFKHKTGQPFQGPSYPQEFILYTNDTWNASKTEPFTPLERGLKPGSQESSGWHLVGTPLGRSFQRKEQAAIFAVLQPLVIPRQTGSGVDLQQTPTDLQKRVLTVRRKTNSININKKDDHAKTTSKGHQQRPKVDKSTKMRKNQCKKATNSKNQNVSSPPKDHNSSTAKEQNWMENEFDKLTEVGFRSSQFDQVEERISDIEDKLEIKHEDKIREKRMKKKEQSLQEIWEYVKRPNLRLIGVPESDGENGTKLENTLQDTIQENFPNLRQANIQIEIQRTTPQRYSSRRATPRHIIIGRFTKVEMKEKRLRAVREKSRVTHKGKLI RL TADLS
17422	47790	A	17528	738	1323	ATGGHSNQRQRS*KLSKKFRRMYN*NNQYREVLKGADGAENQGSRTTETLCM*RMQSLQFADSDLVRHQKHSGEKPYECCECGKAFRGSSSELIRHRIHTGEKPYECGEYKSYECIACGKAFGSSSTLIENQRIHTGEKPYECNECGKSFNQSSALTQHRIHTGEKPYECS ECRKTRHRSGLMQHQRTHTR
17423	47791	A	17529	1	656	MAGKPEYDKTISTSIVLNALNALGVSAEASGRNDLVVKTVEGDRKVS GSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPNKTPDLNFAETFARQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDV/GKRPYHPRPGVYR QQPRAAGSPRRTTARLPFLSL

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17424	47792	A	17530	1046	1401	LLDIRMLCHGKGVIIHVLRQLQF LLGRPAPHRLHAALQLPGLSLH GTLALGLWLQLRQLLLLGQPF GISGCGSGCDPEQDCV/DCGRG CWPRKCPQGSHSAPRSRGAPHR PRPQQRAGRQ
17425	47793	A	17531	112	1170	YPFFHLIDSTIDTCVCFTKFLCC VFQLHQVIYVLL*TGYSLIFDAD DLWMGFLRGHPFC*CYCFLFVS FPSNSQAPLLQVCWSLLEVHSR PCSPGYHQRRQLQNSKDCCLLLP LEALSQSGTHQMPAGALLYEM SVNPCWEEHQTDQLFTHESTFI RSKTQKKVPDKLLDSSTVTPLF KITENIGCVMTGMTADSRSQVQ RARYEAAWVKYKYGYEIPVD MLCKRIADISQVYTRNAEMRPL GCCMILIGIDEEQGPQVCKCDP AGYYCGCKATAVGVKQTESTS FLEKKVKKKFDWTFEQTLETAI TCLSTVLSIDFKPSEIEVGVVTV ENPKFRILTEAIDAHLVALAER
17426	47794	A	17532	2244	2432	DGQQIALHLRLALRELQQA V H AGIAPAGENPV*WFRNRQNP LIALRSLPAFQSGNLSQQLH
17427	47795	A	17533	251	546	SSISDILSSA*SIRLLILVYAS*SS RAVFFSTIRSFIFSKLVILVSPSC NLLSRFLASFHWVRTCSFSSKEF VIITHLLPTSVNSSYSSLFSFVHF G
17428	47796	A	17534	597	1092	FTNQKESRTRWIHSRILPEVQG GTGTIPSETIPINRKRGNPP*LIL* GQRHSDTKAGARDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR K/CNKCNPAYKQSQRQK/HT*L SQ*MQKKPLTKFNPNPSC*KLSIN *VLVGRISK
17429	47797	A	17535	1	2153	
17430	47798	A	17536	2164	2427	
17431	47799	A	17537	1	322	GPRWGPRVHRAPDPVRIPSSGP LLPPRFYPRYVLPPPSASTSRPC QRTSASGRCPCPMH/DTVKATM PIWV/DPPVPDHYEGEAHQGIL VTHPHHQRCPAGHRHRVVF
17432	47800	A	17538	1	627	

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17433	47801	A	17539	583	1145	GNGRTVDTQVCQAPITSQSLER PADPNP\GEQDAEAGPASRRDT EAERLRFRQFQYHVASGPHLA VGQLWTLCRQWLRPEARSKEQ MLEVLVLEQFLGALPSKMRTW VQSQGPRSCREAASLVEDLTQ MCQQEGLAAHPSHDTAIRGIPR LAASWETASAMEATADARQKR THTEKEAWLLEAPHELA
17434	47802	A	17540	1	1301	
17435	47803	A	17541	1	1232	
17436	47804	A	17542	1	549	MNTANVEKPYVQKYQTAFVLV MKHRQCQLASHLVQNYRS/IQL WAWE\KIQDPGTTCPFSNTITQG SKKPYPDFVARLRDAAQNSITD ENARKVIVELMAYGNANPECQ SATKPLKGKVP TGSDVISDQKA VGVQAAKRRNRDTGLGRSAR KSGKGVTRMLPKHASMILDGG GPATSPSCCRFL
17437	47805	A	17543	146	510	SPYWNKGKSPGWLAES\FKRPV FRQGAK\EPYPDFAASLQDAAQ KSITNENARKVIVELMAYENAN PECQSAIKPLKGKVPVGS DVISR GFQGGQPPLSQVLQGMGQLPQ YSNCPRPQAAVQQ
17438	47806	A	17544	2	828	
17439	47807	A	17545	1	420	
17440	47808	A	17546	1	1947	
17441	47809	A	17547	1	399	PLKVNIYPDSKYAFHILHHER GFLT TQGSSINASLIKTLKAA LLPKEARVIHCKGHQRASDPIA QDNAHTDKIAKKAASIPTYTPH FQFFSFSS\ATPTYSPAETSTYQS LPTQGWFLDKETYFLPASQ
17442	47810	A	17548	1	2382	

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17443	47811	A	17549	1	2194	MAPEQGRVSILQTLFIEYHGYSI FVVKGDLPDCEADQLQMIRV QQMHRPKLIGEELAQLKEQRV HKTDLERVLEANDGSGMLDED EEDLQRALALSRQEIDMEDEEA DLRRAIQLSMQGSSRNISQDMT QTSGTNLTSEELRKRREAYFEK QQQKQQQQQQQQQGGDLGGQ SSHPCERPATSSGALGSDLALLL TQSLFGSLFTWTRVTFGAEDPG QEDSFRRRVPCPCPHSVRRSTY DLGSSDQPAQGTSEFQIGLLL TRLQVPIPLQPPVPHIILLSPPP HTVSGLQFLSVTSPPLPAQQFLL KEVAGAEGIAKVIPTCPVPLLG QDILTKLSASLIIPGLQPHLIATL LPNPKPPSPLPLVSPNLNPQVW DTSTPSLATDQTPITPLKPNHP YLAQCHYSIPQLALRGLKPVIT RLLQHGLLKPINSSYNPILPVQ KPKDSYRLPQDLDLINQIVLPIH PVASPHIIPDTTPDPHDCISLIHL AFTFPHTSFFPIPHPDHTWFD GSSTWPNRHSPAKVGYAIVVSS TSILEATALPPSTTSQQAELIALT RALALAKGLHVNIYTDSKYAF HILHNAVIWAERGFLSTQRSSI IIASLIKTLKAAALLPKEAGVIH CKGHQKASDPQAQGNAYADKS DNGLAFTSQI/HKQFLRLLVFS GTFIPLTVLNLQERTGQYFYLLP FTELEPVLEKLQGTVHLNFYMD
17444	47812	A	17550	1	355	
17445	47813	C	17551	99	335	
17446	47814	A	17552	21	447	LGPLPFSLSPCCLHCQGKRLCG HHEEARRRKNVSIPRKEAGIIHC KGHQK/A/SDPIAQGNAYADKT KFLDLAFPPRLSFTCQITQAVS QALGIQWNLHTLTILNLQKRIR ACPQDATGYSPFELLYGCSFLL GPSLIPDTSPT
17447	47815	A	17553	119	239	TQKGQRAALFLICILSPSPLPTL GKNFKN*IPALKPHNRI
17448	47816	A	17554	1	798	
17449	47817	B	17555	460	1059	

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17450	47818	A	17556	3	1476	IPTCPVPLLGGDILTKLSASLIIP GLQPHLIATLLPNPKPPSPLPLV SPNLNPQVWDTSTPSLATDQTP ITIPLKPNHPYLAQCHYSIPQLA LRGLKPVITRLLQHGLLKPINSS YNSPILPVQKPKDSYRLPQDLDD LINQIVLPIHPVASPHIIPDTPDP HDCISLIHLAFTFPHTSFFPIPHP DHTWFIDGSSTWPNRHSPAKV GYAIVVSSTSILEATALPPSTTS QQAELIALTRALALAKGLHVN YTDSKYAFHILHHNAVIWAER GFLSTQRSSIIIASLIKTLKAAL LPKEAGVIHCKGHQKASDPIA QDNA YADKLAKKAASVPTSVP HGISQAPPPLPTHQARYWQIDF THMPRVRLKLYLLVWVDTFTG WVEAFPTGSKKATAVISSLLSDI IPQFSLPTSIHSDSRLAFISQITQA VSQALGIQWNLHISYRPQSSGK VEQTNGLLKTHLTKLSLQLKK DWTVLLPLALLRIRACP
17451	47819	A	17557	24	594	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQTDQPKHLTNFKS GCSSPGPARSQFFLSLRSSTL*SF YHLPSSHLVCLTVSFRD*PSPTC PAIDS*KGG/CELKA/RVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAPYHV RSACFPFAFCHDCQFPEASPEAE AAAILSVQPAEP
17452	47820	A	17558	1	1152	
17453	47821	C	17559	301	462	
17454	47822	A	17560	1	423	
17455	47823	A	17561	421	856	KLINLFSNFCSYSRQFLSFSSTL YFVWVFCYNRCCFSK*RMIVHI TNRDINCQIAYARIEGDMIVCA AYAHELPHYGVKVGLTNYAAT YCTGLLLAHRLNRFMGMDKIC YLDAGLARTTTGNKVFGDLDG GLSIPQSTK*FPGYD

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17456	47824	A	17562	3	1082	GPLCIALALQFEGTRRRWACRS LSSSGRRSLFRRMGSVKAVKNK AYFKRYQVKFRRRREGKTDYY ARKR\LVIQDKNKYNTPKY\RM V\RVVTNRDINCQMLYA/RRIEGD MIVCAAYCTPNLPKIWV*RVGL TNY\AAA\Y\CTGLLL\ARRLLP*/ RFGMDKIYEGQ\ELTGDEYNV ESIDGQPGCLPPAYL\ADAGPCSE PTHWPLKFFGAPEGKLLWMGGL SIPSQYPNRF\GYDSEKQRNFN AE\VHRKAHSWGQNCRCFTWR YF\MEED\EDAYKK\QFS\QYIK\ NSVT\PDMM\EEMY\KKAHAAI RENPV\WKRRPK\KEV\KKKRW NRPKMS\LAQ\KKDRVAQKKAS FLQSSRSGLLES\TPAIFP
17457	47825	A	17563	2	4967	
17458	47826	A	17564	56	284	RQTRRAAGIVRGDCPASSPTNC DLGQC/NSTS/LEPRFVQTVHLL CPWT/GGSSPLLAARGSLPVSL GPLKPMVSCAGR
17459	47827	A	17565	1	3525	
17460	47828	B	17566	35	3691	
17461	47829	B	17567	80	3787	
17462	47830	A	17568	225	507	
17463	47831	A	17569	2	2621	
17464	47832	A	17570	14	1658	
17465	47833	A	17571	1	3654	
17466	47834	B	17572	1	3570	
17467	47835	A	17573	1	3663	

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17468	47836	A	17574	485	2347	TEPKTKTT*LSQ*MQKRPLTKF NNTSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKVSLEFADD MIVYLENPTVSAQNLLKLIGNF SKVSGYKINVQKSQAFLYTNNR QTERQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENNKPLLKEV KEDTNEWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTHF TELEKTTLKFIWNQKRACIAKSI FSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIAQWNR EPSEIMLHIYNYLIFDKPEKNKQ WGKDSLNFNKCWENWLAICR KVKLDPFLTPYTKMNSRWIKD LNVRPKTIKTLEENLGITIQDIG VGKDFMSKTPKAMATKAKIDK WDLIKLKSFTAKETTIRVNRQ PTTWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDV NRHFSKEDIYAAKKHMKKCSS SLAIREMQIKTTMRYHLPVVRM AIIKKSGNNRKIQ/GGIWCDRIL* R*TTCRVAKEIQSL*RR/WKRL QRTLSIPVLDAV*PPMF*ASVID TMTI*CFEARDTCFTLTLESFWD MHRCLAASKGIGLLLC*PLIWH MSLMGVKSPPFVFSCLWTSVAV
17469	47837	B	17575	1	3354	
17470	47838	A	17576	1	3297	

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17471	47839	A	17577	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPIITGAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEASHILIPKGRDITKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSQY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIKKSGNN
17472	47840	A	17578	1	3514	MELKTKARELREECRSLRSRCD QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWYVVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTPPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
17473	47841	A	17579	1	3693	

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17474	47842	A	17580	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGDVGLEADFPSPH TLKTQFFSCLAFAAASCFFQR MNGFGMAMTTTYSTGAAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWLRPTSHLPPCSSSAWW TEQTDAPLLFLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAAMSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
17475	47843	A	17581	1	3042	
17476	47844	B	17582	1	3384	
17477	47845	B	17583	1	3264	
17478	47846	A	17584	1	3780	
17479	47847	A	17585	1	3165	
17480	47848	A	17586	1	3894	
17481	47849	A	17587	1	3345	
17482	47850	A	17588	523	3981	
17483	47851	A	17589	1	3429	
17484	47852	A	17590	1	3921	
17485	47853	B	17591	1	4797	
17486	47854	A	17592	1	6499	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYSKIDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLEKEKQEQTTHSKASRRQE ITKIRAELEIETQ

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17487	47855	A	17593	1359	2520	IQCHPHQATNYFLHRIGKNYFK LHMEPNKSLHSQDNPKQKGTK LEV/CTLPDFKLYYKATVTKTA LYLYQ/NQRCRSMEQNRALRN NATYIYNLYIFDKPEKNKQWG KDTL FNKWCWENWLAICRKLK LDPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTIQDIGMGKD FMSKTPKATATKAKIDKWDLIQ LKSFCTAKETTIRVNRQPTWE KIFGIYSSDKGLISRIYNELQQIY KKKTNNPIKKVVKDMNRYFSK EDIYAAKRHMKKCSSSLAIREM QIKTTMRYLTPLRMAIHKFG NNRQETVREMACLLSGTMDFR HRACFVLSKPDFSTRWPGADA QRPPVLVVVALDSSLFPQASG QRPPSLEDVDGGAGALVAPC
17488	47856	A	17594	1	1227	
17489	47857	A	17595	2	2774	NLCSLIIPLEVTIVEKADSSSVL PSPLSISTRNRMTFLFANLKDRD FLVQRISDFLQQTTSKIYSDKEF AGSYNSSDDEVYSRPSSLVSSSP QRSTSSDADGERQFNLGNSVP TATQTLMTMYRRRSPEEFNPKL AKEFLKEQAWKIHFAEYGQGIC MYRTEKTRELVLKGIPESMRGE LWLLSGAINEKATHPGYYEDL VEKSMGKYNLATEEIERDLHRS LPEHPAFQNEMGIAALRRVLT YAFRNPNI
17490	47858	A	17596	1	3472	
17491	47859	A	17597	1	900	
17492	47860	A	17598	1	1290	
17493	47861	A	17599	153	3834	
17494	47862	A	17600	299	1184	
17495	47863	A	17601	1	729	
17496	47864	A	17602	1	2232	
17497	47865	A	17603	36	224	TQWGPSVCWCLIPWPSFPDQ*P GF*AVLLPWRCQGFWPLLLAC APAGPATAAEPAVSSPAEP
17498	47866	A	17604	1	624	
17499	47867	A	17605	1	578	RDLDLFSLPQDITLVHYVDGIM LIGSSEQEVASTLDLLVRHLHA RGWEINLTKIQLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSVAARDVAVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPPERQLLACYWALVETE

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17500	47868	A	17606	1	282	PIYRVSRKAANFEWSPEQEKA QQVQAAVQAAWPLGPYDPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAQQHSIIKWKWYI RDWARADPEGT
17501	47869	A	17607	1	338	SIYLVLTQKAA/SSEWGPEQEKA LQEVQAAVQAAALILEPYDPAGP VVLEVSLADRDADVWSLWQAPI GESQQRPLGFWSKALPSSA/DH KACHAQQHSIIKWKWYIHDRA RAGPEGT
17502	47870	A	17608	1	757	
17503	47871	A	17609	1	1317	
17504	47872	A	17610	2	24	LCQRLLLAEPNEKPGSLGNVM AVARIEIGICEYYHEKTTTEKALD SHGVLAGSTIKGVRSFQRNLEL KLPATERATANAIELLTVLDQA YENFAPQILPSTGSPTSQETAQF KANQNKPLVRGKGSPHEAIRYI SAAHREWKPAILTSAIRSFCST WLVFTSKNFPKLVTHQGSTIAG NGQSSDETQVQGAAWKSDSRG TKRQIPTWILAEGNNAQAQLDI PGPTIPAPNC SLKVPQSWSTTPS MPSSLGKAYWLLACYWALVET E/RLAMGHQVTM/KPELPVMN WVLSDPSSHKVGGAAQQHSINK WKWYIRNRARAGPEGTS*LPAP LIG
17505	47873	A	17611	1	1815	
17506	47874	A	17612	875	1916	PGKQGLEWTPRK LQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNAKDHNSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNFDKRLEEL LIQITSLEKNISDLMEKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RGYHN*S \\QEIQTIREYYKHLYANKLENL EEMDKFLDTYTLPRLNQEEVEP LNRPTSSEIEAVINSLPNQKSPG QTNSQLTSTRDAEKAFNKIQHP FMLKTLNKL DIDGTYLKITRAI/ S*QTHSQCHTEWAKAGSIPFEN RHKTRMPSLTTPIQYSIGNSGQ GNQEFWKLHLVEREW
17507	47875	B	17613	1	1158	

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17508	47876	A	17614	851	1344	IILKPSPSPLYPWKNCLPRNPSL VPKRQTGSGVDIWQTAADLQQ RGLLEGKLTNRKE*YQHQQKR CPHQNPISRPTSNTKARE/QNW TENEFDELTEVGFRRWITNSSQ LKEHLLTQCKEAKNLEKRLEEL LTRITSLEKNINDPMELKNTAE PHEAYTSINS
17509	47877	B	17615	99	716	
17510	47878	A	17616	1	588	
17511	47879	A	17617	1	1140	
17512	47880	A	17618	1	774	
17513	47881	A	17619	3	527	AENSKKQNASSPPND/RNSS/EA QNWTEFDELTEVGFRRWIV TNSSKLKEHVL TQCKEAKNLD KRLQELLTRITSLEKNINDLMEL KNTARELREAF TSFCVNCEAVS LITSLREDSHWLEDSKGHRM/R RHQE*KCEYFHPPHPGLQFYQL PESDSHSDPLWPHGGSFLSSVV
17514	47882	A	17620	1	1383	
17515	47883	A	17621	1	990	
17516	47884	B	17622	337	1515	
17517	47885	A	17623	153	474	QTKSNNVNIKKQDVHTKTPSEG HQHQRPK\DHNSLPAREQNWIE NEFDELTEVGFRRWITNSSSEL KEHVL TQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17518	47886	A	17624	1	771	MPFSDTERVITGPSTKVHSSYPG GLQALLQLRLHSLMWRWSAA VAIGVHVRCDLLAVHPVLWAV PQWQEPIEKMLTLIPGRITATII GLYQHEGIRAYCDSRVYYIKPS SGIESVLTRPSTQDHNSSPAREQ NWTENEFDELTEVGFKKWVIT NSFELKEHVL TQWKEAKNLEK RLANLLTRITSLENINDLMELK NTAQELHEAYASINSRINQSEER ISEIEDQLTEIEQVDKIREKRIK/R RNEQSL*EIWDYV

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17519	47887	A	17625	53	814	PGKQGLEWTPRK LQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNADHNSSPTREQNWTE NEFDELTEVGFR RWVITNSSEL KEHVL TQCKEAKNFDKRLEEL LIQITSLEKNISDL MELKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RKEQAAI FAVLQPPLVITRQTGSGVDPQK TPADLQKRCRTVRRKTSQQKA VASTLTKRITTQKLNADHNSS PTREQNCTENEFDELTEVGFR RWVITNSSELKEHVL TQCKEAKN FDKRLEELLIQITSLEKNISDL ELKNTARERWKHTQVSI AKSIK QKWTASQTNKEEKREESNSTIK NDKGDITDPTEIQT TIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEVEPLNRPITSSEIAVI NSLPNQKSPGQTNSQLTSTR
17520	47888	A	17626	1	1566	
17521	47889	B	17627	1	1005	
17522	47890	A	17628	1	2172	
17523	47891	A	17629	1	504	
17524	47892	A	17630	2	1601	
17525	47893	C	17631	132	278	
17526	47894	A	17632	380	828	EVL RVMIELNAVIYPYPKDTGC QPLV*HAAASLNSPEVMGATQ LKPLRPCKKCPKNLEGGH*EW MEARHRNLGTLHGLPCSRTHF* TTTAQGEWLCCLCHCGEHPQG GRHPCIC*HCYSCHTLAPPVQW TPNVAEPDNKAGAQYKSPRV
17527	47895	A	17633	1	963	
17528	47896	A	17634	2	368	EFSDPIHHTFDH MWRTKEHNE AGWLLLSSVDKVMKENDELGD SISQLQKQILSLKSAKIALSESLI SCRERTEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD P
17529	47897	A	17635	1	1881	
17530	47898	A	17636	755	939	ARKNTRIHSYGVCKNVETWR* MFCTLLGRQQGCATVGKGDR C GPLRYASWRKGDVLQGD
17531	47899	A	17637	367	423	
17532	47900	A	17638	3	1925	
17533	47901	A	17639	1	1137	

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17534	47902	A	17640	153	474	QTKSNNVNIKKQDVHTKTPSEG HQQRPK\DHNSLPAREQNWIE NEFDELTEVGFRWVITNSSEL KEHVL TQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17535	47903	A	17641	1	1068	
17536	47904	B	17642	1	717	
17537	47905	A	17643	585	2302	VLQLLRQERLELFVPPGELVVS LASGVKLQTFAGGKAWLLQTH SDLGEQKLTTFIPISLSLKVIFWC NWPEAKTAAYDGEQATCEPVL KAMFLADTHLLREFLGHWLDK LRREWQVERAFQTALWLLQPE VVFILEDVFDEGKWTSEAWV DDVEQFRKMFRHPSHVQLKV AGNHDTGFHYETNTYEVRWR NRNNPSFIMGSIPTDYALSKCH LPPEDVVLIIYCGVKLPDRIVDS KAGLLKLPVLKNVISTQLQFPSI MDQLLVYNLFNETSPLVMCLD VMAMSNRGNHHLAATRLRKV LDHNSLPAREQNWTFNEFDEL EVLVFRWVITSSSELKEC/DVLT QWKEAKNLEKRLDELLTRITSL QKNINDLIELKNTAQELHEAYT SINSQIDQVEERISEIEDQLNEIK CEDKIREKRMKRNKQTLQETW DYVKRPNPCWIGVPESDGENG TKLENTLQDIIQENFPNLARQA NIQIEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAGEKE DETDNNEFFLWSQKGKRAAGTL NDHVEESCPPTKNACLGTPHIC
17538	47906	A	17644	1	282	PIYRVSARKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAAQQHSIIKWYI RDWARADPEGT
17539	47907	A	17645	3	903	
17540	47908	A	17646	1	349	
17541	47909	A	17647	1	489	
17542	47910	A	17648	1	352	
17543	47911	A	17649	1	505	KTDGSRMTVDYHKLNQVAT PVAAAVPDVVSLLQINTSLDT WYAAIDLGNVFFSIPVHKVHQB KFAFSWQGQQYTFTVLPQGYIN SPALCRHFVRRHLD/RFSLPQDI TVVHYIDIMLVG\PLIYRMTR KAAIFEWGPEQKALQQVQAAV QAALPLGPYPADPMRLR

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17544	47912	A	17650	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLKSQRTPRGEVE SVTDGEKTDGSRMTVDYCKL NQVVTPIAAAVPDVVSLLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTDLLVRHLCATGWEINPT KIQGSSTSVKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRRKYIPYLGVLCC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGPYPAGP MVLEIAVADTEAVWGH/WHSA SFPSHPCHCPMGP*TKWP*WQG WRLCMGSATWTSTHEG*PGYG HQ*VPNLPAAEETNEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AE\HLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNNSIK L*VKIATWTLWAPPTSKL
17545	47913	B	17651	47	838	
17546	47914	A	17652	1	1566	
17547	47915	A	17653	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPTCSWRRHLLSSCPYT GMSFPIPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSQEIQ REWILRKTDGSRWITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTWLCHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHHP KVDSCSTTAPF*DIPEGQQL
17548	47916	B	17654	179	1219	
17549	47917	A	17655	1	2655	

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17550	47918	A	17656	1	942	MVGKAKWKPLELPLPRKIVNQ KQHHPGEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTDGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQKPFASW QG/QQYTFTVLPQDYINSLAL*H NLIWRDLDF\LLLQDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGTTTSVI AQWAHEQSGPGSRDGGYAWA QQHGLPLTKADLATTAECPVC QQQRPTLSPRYGTIPSLPLTKAL TLQLKKCSSGPMLMEFTGLAM FPIILKQLD
17551	47919	A	17657	1	868	
17552	47920	A	17658	83	346	
17553	47921	A	17659	1	643	MVGKAKWKPLELPLPRKIVNQ KQHHPGEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKTDGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQKPFASW QG/QQYTFTVLPQDYINSLAL*H NLIWRDLDF\LLLQDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGT
17554	47922	C	17660	38	202	
17555	47923	A	17661	3	410	LKSRQAPRCEVESVTHEEYYT RKELFEFSNLYRKKSQEIREWI LRKTDGSRWITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLCHNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVA TLDLL
17556	47924	A	17662	2	526	
17557	47925	A	17663	2	431	
17558	47926	B	17664	55	1506	
17559	47927	A	17665	1	753	
17560	47928	A	17666	73	310	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAQVQAALPLGP YDPADPMVLVSVADKDAVWI FHLGSDRWRRTYRCL
17561	47929	A	17667	323	687	KTDGSRW/TVDYRKLNQVVTPI AAAVPDVVSLLHINISPGIW/H HQKQFAFS*QGQQT/FTVL/PH GYINSLALCHNLIRDLDFSLP QDITLVHYIDIVLTGSSEQEVA GSLESTCRHTKV
17562	47930	A	17668	3	1363	
17563	47931	A	17669	1	1203	

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17564	47932	B	17670	130	1374	
17565	47933	A	17671	1	1063	
17566	47934	A	17672	3	239	
17567	47935	A	17673	231	368	NKHQEDSLKPPIPGPSSWTAF/P KPTLGQKGTCCTEKKKKKKKK GRI
17568	47936	A	17674	1	1270	
17569	47937	C	17675	100	270	
17570	47938	A	17676	459	1978	
17571	47939	A	17677	35	347	VVRAWYPGWGQGSEKEWQW DQQEALGRVRGSKVTGEWEGR AGPEGTGQNGEGPRGILEVGGT TAPFCLAEGEWGPGGHPHLLF PPSPRPPPPPPPTPPEPPS*PPSP PRPPQPPPTPPEPPS
17572	47940	A	17678	236	397	NWLQPCG*AHPTGSGFPAPKLC PASPGAPFSNEILSEPGLTAPM PT/GAPCRSHGAGHSGDPGWPS SSPTGEDTNSAGPGAARVQMG CGHCVSLVPR*/CCWTPGGA
17573	47941	A	17679	132	492	TDHRDRKDKHPPALPASAMDK KNA/GQEGRPGASRGSSPMATA TTGPQGVMPGYH*CSLRPKGSS VGLW*MLPGLGLTLQDSGLPS GPRQVQNYCPGAKALNQGPQE PA*CKASNQRPSVYLPTREYPS EQIIVTEKTNILLRYLHQQWTK RTLPRRKTRSKQRKLTGYCH YRSTGSNARLPLMFIKTQGFFS RLVVDAAWPGTHPSGQWAPF WPKAGPELLSRSQGFESGTSRA RLMFYPTMAAPVPK
17574	47942	A	17680	618	755	
17575	47943	A	17681	796	1092	
17576	47944	A	17682	1	391	
17577	47945	A	17683	1	697	
17578	47946	A	17684	1	888	
17579	47947	A	17685	749	1667	
17580	47948	A	17686	1	2088	
17581	47949	A	17687	189	438	
17582	47950	A	17688	387	497	

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17583	47951	A	17689	1	728	MAQEIEGDRLEFRARLTRRVQG KGPCGPLKAPLGMVPECHSVK PSRDTFDSTKSFKALLSFLKIP AIDVHKPIDHPINFTFPDPGHRA PARHRHSTAAAVTMSPSGP/PA AAPSPCSPIPRHG*GPLRATSYC PVSWKQKQNSVSNKQTNEQTK TAKAEGARSRGPRNKIPGLPPG PRSGRLRIWLPPPREGSGFQTPAR GHPQPPCSGKGTECQSIQNLA SRISPVGTSCGRTSRQTIRVRK
17584	47952	A	17690	1	819	
17585	47953	A	17691	1	2115	MSGSYSSVWAEDDIQFDSRFLE LKGDTKIDLKRFSSQGYVEPGK YNLQVQLNKQPLAEEYDIYWY AGEDDVSKSYACLTPELVAQF GLKEDVAKNLQWSHDGKCLKP GQLEGVEIKADLSQSALVISLPQ AYLEYTPDWDPPSRWDDGIS GIIADYSITAQTRHEENGDDDS NEISGNGTVGVNLGPWRMRAD WQTNVQHTRTQLALGEDYLNLS DIFDGLNYVGGSVSTDDQMLPP HLRGYAPDISGVAHTTAK
17586	47954	A	17692	1	1080	
17587	47955	A	17693	1	253	
17588	47956	B	17694	1	1069	
17589	47957	A	17695	1	764	
17590	47958	C	17696	136	990	
17591	47959	A	17697	1	1422	
17592	47960	A	17698	547	1017	
17593	47961	A	17699	176	431	
17594	47962	A	17700	1	846	
17595	47963	A	17701	1	1815	
17596	47964	A	17702	1	1578	
17597	47965	A	17703	1	1149	
17598	47966	A	17704	22	441	
17599	47967	A	17705	828	920	
17600	47968	A	17706	1	231	MESKRLDNA/CAGGGD*PQLH QCPR*TAVD*RRNQTAFA*RDA STYRHESGGNASPECHGLYQR QKNADGGGGQRRRI
17601	47969	A	17707	1	563	
17602	47970	A	17708	19	372	
17603	47971	A	17709	134	491	
17604	47972	A	17710	1	969	
17605	47973	A	17711	59	839	
17606	47974	A	17712	186	725	
17607	47975	A	17713	1	251	
17608	47976	A	17714	1381	2217	
17609	47977	A	17715	357	804	

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17610	47978	B	17716	1	2361	
17611	47979	A	17717	1	2832	
17612	47980	A	17718	1	3477	
17613	47981	B	17719	143	3122	
17614	47982	A	17720	1	3018	
17615	47983	A	17721	1	4371	
17616	47984	B	17722	1	2010	
17617	47985	A	17723	1	2168	
17618	47986	A	17724	1	2067	MKEIEIQKSLPKINESRSWFFEKI HKIDRLLARLIKKREKNQIDTI KNDKGDITANPTAIQTTIREYY KHL YANKLENLEEMDKFLDTY TL PRLNQEEAESLNTPTIGSDIE AIINSLPTKKSPGPDGLTAEFYQ RYKEELKKEGILLSSFYEASILLI PKPGRDTTKKENFRPISLMNID AKILNKILANRIQQHIKKLIHHD QVGFI PGMQGWFNICKSINVIQ HINRTKDKNHTIISIDAEKAFDK IQQPFMLKTLNKL GIDGTYLKII RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPVSPVFN TVLEVL AREIRQEKEIKGIQLGKEEVKRS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAF YTNNRQTESQIMSELPFTIAPKR IKYLRIQLTRDVKDLFKENYKL LLNEIKEDTNKWKNI PCSWVGR INIVKMAILPKGIH RFNAIPIKLP MTFFTELEKTTLKFIWNQKRAR IAKSILSRKYKAGGSMLPDFKL CYKATVTKKAWYWYQNRDID QWNRTEPSEIMPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LTICRKLKLDPFLTPYTEINSRW IKDLNVRPKTIK TLEENLGNTIQ DIGMGKDFMSKTPKAMATKAK IDEWDLK LK\SFCTAKETT VR VNRQPT EWETIFAIYSS
17619	47987	A	17725	1	3457	
17620	47988	A	17726	1	3630	
17621	47989	B	17727	1	3384	
17622	47990	B	17728	1	2199	
17623	47991	A	17729	1	3924	
17624	47992	A	17730	1	3345	
17625	47993	A	17731	1	2382	
17626	47994	A	17732	1	3720	
17627	47995	A	17733	1	3894	

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17628	47996	A	17734	1	2427	MGCVRQIIPLGTHPVVHQLTSIP QNCQSPQKTRKDREIGQPRGAY GDMRSKCNVLMMESWNRKR TLEIQTIREYYKHLTYTNKLENL EEMDKFLDTYTLPRLNQEEVES LNRPTHSDIVTIINSLPTKK\SPG PDRFTAKFYQRYKEELVPFLLK LFQSIEK/EGILPNSFYEASIIIPK LGRD'TTKKENFRPISLMNTDAK ILNKILANRIQQHIKKLIQHDQV GFIPGMQGWFNIRKSINIIQHIN RIKDKNHMIIISIDAEKAFDKIQQ PFMLKTLNKLGDGTYLKIIIRAI YDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEALAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTS NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWIGRINIV KMAILHKALYRFNAIPIKLPM FFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLPDFKLHY KATVTKTAWYWYQNRDIDQW NRTEPSEIIPPIYNLYIFDKLDKN KKWGKDCLFNKWCWQNLAI CRKLKLDPLLTPYTKINSRWIK DLNVRPKTIKLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFVTYSSDKGLISRIY
17629	47997	A	17735	1	3780	
17630	47998	A	17736	1	2808	
17631	47999	A	17737	1	4842	
17632	48000	B	17738	331	3282	
17633	48001	A	17739	1	2880	
17634	48002	A	17740	1	3213	

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17635	48003	A	17741	1	2561	MKAEIKTFFETNKNKDDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLELEKQEQT YSKASRRQEITKIRAELEKEIETQ KTLOKINESRSWFFEKINKIDRP LTRLIKKKREKNQIDSIKNDKG DITTDPTIEIQTIREYYKHLNAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPTGSEIEAIIINSLPT KKSPGPDGFTAIFYQRYKEELV PFLKLFQSIEKEGILPNSFYEAS IILITKPRHTTKKNFRPISLMNI GAKILNKILANRIQQHIKKLIHH DQVGFIPGMQGWFNIRKSINVI QHINITNDKNHMIISIDAENAFD KIQQRFMLKTLNKLIGDGMYL KIIRAIYDKPTATQNLKLIGNF SKVSGYKINVQKSQAFLYTNS QTESQIMTELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLSEIK EDTKKGKNIPCSWVGRINIMK MDILPKVIYTFNAIPIKLPMFTFT EVEKTTLKFCINQKRARIAKSFL SQKNKAGGITPPDFKLYYKATV TKTACYWYQNRDIDQWNRTEP SEIMQHIYNYLIFDKPDKNKQW GKDSL FNKWCWENWLAICRKL KLDSFLTPTKINSRWIKDLNIR PKTIKTLEENLGSIIQDIGMGKD FMSKTPKAMATKAIIDEWDLIK LKSFTAKETTMRVNRQPTEW EKIFATYSSDIGLISRIYNELKQI
17636	48004	A	17742	1	5042	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
17637	48005	A	17743	101	471	MLSRLASRNRMRF AVEVVRA VRE/RVGNDFIIYRLSMLDLVE DGGTFAETVELAQAVEAAGATI INTGIGWHEARIPTIATPVPRGA FSWVTRKLGHVSLPLVTTNRI NDPQVADDILSSTH
17638	48006	A	17744	161	311	

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17639	48007	A	17745	221	799	
17640	48008	A	17746	20	346	
17641	48009	A	17747	431	1578	
17642	48010	A	17748	1	771	
17643	48011	A	17749	3	863	AVLRREMRQMEGAWLGSDLV DQGERLNRLGFFETVDTDTQ RV/PGSPDQVDVVYK\IVSLGGR LFYNDQADDADLSDYTNKKIE IIDSHADYFHIDIMDGHFVPNLT LSPFFVSQVKKLATKPLDCHLM VTRPDYIAQLARAGADFITLH PETINGQAFRLIDEIRRHDMKV GLILNPETPVEAMKYYIHKADK ITVMTVDPGFAGQPFPEMLDK LAELKAWREREGLEYEIEVDGS CNQATYEKLMAAGADVFIGT SGLFNHAENIDEAWRVMTAQIL AAKSE
17644	48012	A	17750	2	893	
17645	48013	A	17751	139	2057	
17646	48014	A	17752	2	361	
17647	48015	A	17753	497	897	PRASFSAWLAF CST/TKDSHPL LAQLLDGVENLDHRQHLLFTA GHGARPLIRAHADVEENCDFP ILIVHPSIHPIIYLSIHPSTIRGERL MTQIPLIKHFLAGVTGLKLTQQ MRFCEVCLPLIATAGNRQTH
17648	48016	A	17754	83	1038	PSRAGHLPPKIKSSMAGTTPLCS IMVRQRK/PLVPAPLYQGMRDG KIVRFEEITRTPLEVQDCLLASA LALGLALMGNAQAVTTIPFWH SMEGELGKEVDSL AQRFAEN PDYKIVPTYKGNYEQNLSAGIA AFRTGNAPTYFAGHIMQACGV ALSATYFIRRKVVSLSDQKLNI AMTFVGSMGALLVQYVQAD VLRQILPILVICIGLYFLLMPKLG EEDRQRRMYGLPFALIAGGCV GFYDGGFGPAAGSFYALAFVTL CGFNLA KATAHAKLLNATSNIG GLLLFILGGKVIWATGFVMLVG QFLGAPHGVPTCV
17649	48017	A	17755	571	1728	
17650	48018	A	17756	332	511	
17651	48019	A	17757	581	637	RALR*SLQDGS AKRGASVS
17652	48020	A	17758	1	1098	
17653	48021	A	17759	1	366	

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17654	48022	A	17760	321	611	GEGENYCDSVVMTWVAI*QN WQCHCCSLRCASLRQG*RQDV TDTRGETIKREMARNWV/WRA RVINAGFSRGSLLRGPISDHRRK RLSASIRQFYPRP
17655	48023	B	17761	95	645	
17656	48024	B	17762	1	3978	
17657	48025	A	17763	1	328	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSKFNK RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSLVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT NGLEPVQQGEITVDGIVVNDKK TDLAKLSRVGMVFQHFELFPH LSIENLTLAQVKVLKRDKAPA REKALKLLERVGLSAHANKFP AHYSGGQQQRVAIARALCMDP IAMLFDEPTSAIDPEMINEVLD VMVELANEGMTMMVVTHEM GFAVKWRIGSTQQGAQLHCNR WLHVRKHLLVAYYNLVGIKPG KESYMRLNEKALDDFCQSLVD YLSAGHFSIYERILHKLEGNGQ LARAANKIWPQLEANTQQIMDY YDSSLETAIDHDNYLEFQQVLS DIGEALAAAFVLEDKLILLVLD AAR*NLLKLKVIIIMIDGGFQTGI VVIHNLLSIGFELRPNLRGAREL PVAFQLMKNALINTEMSGRQVI DQALTKIIKGFFV
17658	48026	A	17764	216	473	DALRVASGNGCYSALLPLFCRL L*AESA*VPVQRPCGETLMRSS VVCLGGTAPECSSLGCAEKSGR SWPRKVAHTLGSWTVPRES
17659	48027	B	17765	1	1570	
17660	48028	A	17766	1580	1764	PASSLVMR*CLNRIA\SRAHQPA VRAY*SASAPGIA*KENA*G*RL HHR*NPAGKPDPELL
17661	48029	A	17767	1	1827	
17662	48030	B	17768	1	1281	
17663	48031	B	17769	72	1169	

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17664	48032	A	17770	20	552	SAGDA*DWFHGGVAGGNG* RSP*A/VTSSALKCIHRALVRAW LLRMKKV*ATCA*CVTMRLLK CIK*/CPDNSLRMVQLFFDPWH KARHNKRRIQVQFAELVKSLL QLGGVFHMTDWEPYAEHML EVMSSIDGYKNLSESNQYVPRP ASRPVTKFEQRGHRLLGHGVWD LMFERVK
17665	48033	A	17771	3287	3568	CAFQRNIWHAKLNASPTPVFVP **LLASLTIPMKPAAMPGGKMD WWRVCRASASRPCQK*SLCQT PASVNTLLTVTAVCCASMASTT TRLWKI
17666	48034	A	17772	1	3126	
17667	48035	A	17773	249	3943	
17668	48036	B	17774	1	2178	
17669	48037	A	17775	263	434	
17670	48038	A	17776	619	1184	MRTSCGSFIKRRVMRRIASGMV AENRAV**PSGICAIMVSTSSMK PMRISASSRTRPLSL/AEVQSA TFQVVQQTARSTDNDLRPLTQ GA*LHVITLAAVQS/IPHLRRAC V*RNPSLLQQPVPPVRGSPAP ESVVLQAQDQDSATEVKRMLQ FFRSPSGPYPERRGHSADVEYT LPELEMVFRNPDR
17671	48039	A	17777	1	1485	
17672	48040	A	17778	497	1838	
17673	48041	A	17779	534	922	
17674	48042	A	17780	1	458	MQQLEEALKQLAQGSGSSQAL TQVRRWDSACQKLPDANLALI SVAGEYAAELANQALDRNLNV MMFSDNVTLEDEIQLKTRARE KGLLVMGPDG/WYVDDCRHTA GFC*RDAGRQYWRHWRFRYR DSGAVFADCAGRGGNYSRDWP WRARPQP
17675	48043	A	17781	2	270	QAGKYYGGAVFAPVFGAIMGG VLRTMNIEPDALTSVDKNEFVI NHGEGTGGRS*FARPSCSVGAR RTFASTARDDTRQPCGCGGRSL CS
17676	48044	A	17782	1	1437	
17677	48045	B	17783	63	201	
17678	48046	A	17784	1016	1263	
17679	48047	A	17785	1	933	
17680	48048	B	17786	1	1888	
17681	48049	A	17787	845	2220	
17682	48050	A	17788	110	581	
17683	48051	A	17789	696	989	

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17684	48052	A	17790	199	573	
17685	48053	A	17791	1	3270	
17686	48054	A	17792	1	3018	
17687	48055	B	17793	1	708	
17688	48056	A	17794	264	512	FLAQWLPELPLSRHLRQCTWCR RHRNRW*VRSLHRCWLADCRC PELRIRSHDL*SLAQRSLYDRTR TPDRRQLRTVLHWLLC
17689	48057	A	17795	1	2109	
17690	48058	A	17796	1239	1854	YHDDRNQPDAGNPSNADSGPQ I*QATGSPRRLVRR/RWKRVNR LLAGKLAIVIDDFGYRPHNENQ VLAMPSAISVAVLPDSPHAREM ATKAHNSGHEVLIHLPMAPLSK Q/TAGEKYATPGDEQRN*AHY S*\WVNNVPYAVGINNHMGSK MTSNLFGMQKVMQALERYNL YFLDSVTIGNTQAMRAAQGTG VKVITRKVFLDGFAK
17691	48059	B	17797	1	2243	
17692	48060	A	17798	74	295	TISVLWLMLSLNTSKKRLA*TG SIGFFGLHSFTPRNGLRGASGTA FFGGVEVSTCGSFSKLLAFTSV MSGGRL
17693	48061	A	17799	1	1872	MLRIHCMQHWYNLSDGAMED ALYEIASMRLFARLSLDSALPD RTTIMNFRHLLAQHLARQLFK TINRWLAEGVMMTQGTLDV ATIEAPSSTKNKEQQRDPEMH QTKKGNQWHFGMKAHIGVDA KSGLTHSLVTTAANEHDLNQL GNLLHGEEQFVSADAGYQGAP QREELAEVDVDWLIAERPGKV RTLKQHPRKNRTGISIAYMTGSI RARVEHPFRIIKRQFGFVTARYR GCLNTITNGDVFLATWFGG
17694	48062	A	17800	1	1269	

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17695	48063	A	17801	1	1988	MNDSEFHRLADQLWLTIEERLD DWDGSDSDIDCEINGGVLITIFE NGSKIIINRQEPLHQVWLATKQ GGYHFDLKGDEWICDRSGETF WDLLEQAATQQAGETITGFRV YTLQLNAQLRLGFLRLPYSVNL ATEYKSLTHYTKVPEATNPSLE SSVDVKLSANRLKYPMMRKRL MKMWREAKALHSDPVEAWAS IIEDADKAKSFKQARGRGGFVR SSWQEVNELIAASNVTIKNYG PDRVAGFSPIPAMSMVSYASGA RYLSLIGGTCLSFYDWYCDLPP ASPQTWGEQTDVPESADWYNS SYIIAWGSNVPQTRTPDAHFFTE VRYKGTKTVAVTPDYAEIAKL CDLWLAPKQGTDAAMALAMG HVMLREFHLDNPSQYFTDYVR RYTDMPMLVMLEERDGYAA GRMLRAADLVDA LGQENNPE WKTVAFNTNGEMVAPNGSIGF RWGEKGKWNLESIARIENPHF RSVKHNPVLRQLPVKNLTLV DGNTCPVVSVDLVLANYGDL RGLEDENSAKDYAEIKPYTPA WGEQITRVPRQYIETIAREFADT AHKTHGRSMILGAGVNHWHYH MDMNYRGMNMLIFCGCVGQS GGGWAHYVGQEKL RPQTGWL PLAFALDWNRP RPQMNSTSFFY NHSSQWRYEKVSAQELLSPLA
17696	48064	A	17802	3854	5726	
17697	48065	B	17803	1	1869	
17698	48066	A	17804	391	1246	
17699	48067	A	17805	58	1353	
17700	48068	A	17806	872	2123	
17701	48069	A	17807	1	1422	
17702	48070	A	17808	217	509	
17703	48071	A	17809	76	422	
17704	48072	A	17810	2	288	
17705	48073	A	17811	1	1626	
17706	48074	A	17812	779	832	
17707	48075	A	17813	1	1818	
17708	48076	A	17814	1	645	
17709	48077	A	17815	157	293	ALVCSSPWPSEKCKSKPQ*DTIS HQLWQSLKSQETT GAGEDVE K
17710	48078	A	17816	1	1446	
17711	48079	A	17817	1	306	

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17712	48080	A	17818	71	513	TIRSLGLGWSQMEMRNMLGTGA KKYKLPSSENTINTSTQIN*KI*K KRINSSTHTLSQD*TRKKLNL*I DQ*QELKLWQ*SIA YQPKRVQD QMDSQ/REFYQRYKEELHINRA KDKNHMIISIDA EKA FDKIQQRF MLKTLNEVLMGRISK
17713	48081	A	17819	1	828	
17714	48082	B	17820	1	567	
17715	48083	A	17821	1	1224	
17716	48084	A	17822	1	897	
17717	48085	A	17823	207	547	NHFLQGLGPLLQFPTSSSSPSET TSAWTLCPHHYQAFGQSHSTSL *EV/HKLSHIFMSSEPSKLFQPL PVTQFQSRFHIFRYLFSSIPLYW CQFTVLVHFPAADKDISVTIP
17718	48086	B	17824	1	1128	
17719	48087	A	17825	1	765	
17720	48088	A	17826	1	952	
17721	48089	A	17827	1570	2176	FLQSTHLTKG*YPESTMNSNKF TRKKQPNQRAKDMKRPFSKED IDAANKHMKKCSSLAIEMQI KTTMRYHFTPVRMAIHKSGNN RCWRGCGEIGTLLHCWWDCKL IQPLWKSMWRFLKDLELEIPFD PAIPLLGIYPKDYKSCCYKDTCT HMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTM EYYGAIKR MSSCPL
17722	48090	A	17828	1	531	
17723	48091	A	17829	1	462	
17724	48092	A	17830	876	1111	
17725	48093	A	17831	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAFLEWRKDAHVRKESGY MYSLYDRAYGERTTGRRGRGR GPIPRP
17726	48094	A	17832	1	1290	
17727	48095	A	17833	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLIHRPGE NEDAPVTHVYA VARLKDGGTQ FEVMTRKQIELVRSLSKADTD* PWMCPCPMKRKSAT
17728	48096	C	17834	1	786	

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17729	48097	A	17835	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNVLQVQSKLRADGCAL EDYFSQSEQVLPSELADEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHSGRTSDVKA AVELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHRR*RNWPIILFAHQPRK RRY*VVMPRQEYYN
17730	48098	A	17836	1	4806	
17731	48099	A	17837	1	466	
17732	48100	B	17838	193	1045	
17733	48101	A	17839	1196	2732	
17734	48102	B	17840	1	732	
17735	48103	A	17841	290	664	
17736	48104	A	17842	302	1716	
17737	48105	A	17843	249	909	
17738	48106	A	17844	36	340	
17739	48107	A	17845	902	1455	RRCVLRP/GLDIMRNRLNIRQQ QRLEQAA YEMTALRAATIELGP LVRGLPHLRTIHRQLYQDIFDW AGQRRITLINHGFVPKSTTVVET NGPSDQSIAMRRPGQTISRHHQV QKKLGIELTNCYEHSGLPDIKN VTGILICRQTHARPARLARLIFT ANKTNTINALVDIEVDDFFTD AQIDCCFETGSHSVLARLGAS AQDLQLDATSASHGSK
17740	48108	A	17846	1	1668	
17741	48109	A	17847	1	1080	
17742	48110	A	17848	1	907	MRAGFTSNVLTFLTCTSHFLNT FRAADV ANVQTATSNFRQIQVF EDIITQYNGKYILAVEGNPPLGE QGMFCISSGRPFIEKLKRAAAG ASAIHAWGTCASWGC VQAARP NPTQATPIDKVITDKPIKVP GCP PIPDVMSAIITYMVTFDRLPDVD RMGRPLMFYGGRIHDKCYRRA HFDAGEFVQSWDDDAAPKVT ACTKWAAKGLPPITVPHTLE* WVWSRLLAGGNGLDRGRFSGV DSSWISYLSSAISVTMAPATTLN QTSKAALAA CAISTLCNGWPA VILAQHRWMKWSGLAS
17743	48111	A	17849	239	899	

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17744	48112	A	17850	155	249	CMRRKTALTGGEPDR*TAMR* HNKSPALTGS
17745	48113	A	17851	1	1326	
17746	48114	A	17852	1	1394	
17747	48115	A	17853	46	705	
17748	48116	A	17854	2	488	
17749	48117	A	17855	563	687	LLARTSRQ*KTSLNCVNKL*MP SGQWAVLLLLPVCRCWWLRT
17750	48118	A	17856	1	1429	
17751	48119	A	17857	1	1037	
17752	48120	A	17858	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAFLLWRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17753	48121	A	17859	1	1290	
17754	48122	A	17860	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSFEFGLDEKLIHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTD* PWMCPCPMKRKSAT
17755	48123	A	17861	207	210	QLSLLLNLPLDSIIHRLASSALK RVNDQVGAAPPRHQSPPRNA VSLAPRPVPEWSCAKLLCLSC RVNCQD*GNKALTSIHFWGE GIVGKMWLFYCTEAHFVRDPS GYSN
17756	48124	A	17862	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSELAFDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHSGRTSDVKAARELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHRR*RNWPILFAHQPRK RRY*VVMMPRQEYYN
17757	48125	A	17863	1	4806	
17758	48126	A	17864	1	466	
17759	48127	A	17865	214	907	
17760	48128	A	17866	1288	2757	
17761	48129	A	17867	705	839	AGRSRENRRYRAKQPRCGKR*F *CVYRFYPSGRYAEPSSAPNYT

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17762	48130	A	17868	199	1628	
17763	48131	A	17869	746	1013	TRARRRFITALRFSSLVSASPCC NWAAAFSS\YFCQQIVR*PHFDR QEKRSVQNQPDGSSSSASQSVR QRPKSPQQPVQSANPSLLCR
17764	48132	A	17870	2	331	
17765	48133	A	17871	1	591	
17766	48134	A	17872	1	1197	
17767	48135	A	17873	45	3402	NRFSHISVTSACGWYHIPVEE/Q PEY/PGNLELERRIRSAIRWNAI MTVLRASKKDLELGGHMASFQ SSATIYDVCFNHFFRARNEQDG GDLVYFQGHISPGVYARAFLEG RLTQEQLDNFRQEVHGNGLSS YPHPKLMPEFWQFPTVSMGLG PIGAIYQAKFLKYLEHRGLKDT SKQTVYAFLGDGEMDEPESKG AITIATREKLD/NLVFVINCNLQ RLDSP\RWDELLRKDTSGKLIQL MNETVDGDYQTFK
17768	48136	A	17874	452	1395	LAGATGTAIRLILHAPLLLPIKM RLP/TVSEGKPD SIPAAEKFAAE NKNTYGALASLELAQQFVDKN ELEKAAAQLQQGLADTSDENL KAVINLRLARVQVQLKQADAA LKTLDTIKGEGWAAIVADLRGE ALLSKGDKQGKHQRAENCEIQ GYIDMIKHLVAPLVFTSLILTGC QSPQGKFTPEQVAAMQSYGFT ESAGDWSLGLSDAILFAKNDY KLLPESQQQIQTMAAKLASTGL THARMDGHTDNYGEDSYNEGL SLKRANVVADAWAMGGQIPRS NLTTQGLGKKYPIASNKTAQGR AENRRVAVVITTP
17769	48137	B	17875	1	1579	
17770	48138	A	17876	182	2069	

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17771	48139	A	17877	1	2017	MESGVATRPIADFVYIDKLTE FVYKTNLFMKPIFSQARKAPKR VVLPEGEEARVLHATQELVTLG LAKPILIGRPNVIMRIQKLGLOI KAGVDFEIVNNESDPRFKEYWT EYFQIMKRRGVTQEQAQRALIS NPTVIGAIMVQRGEADAMICGT VG DYHEHFSVVKNVFGYRDGV HTAGAMNALLPSGNTFIADTY VNDEPD AEELAEITLMAAETVR RFGIEPRVALLSHSNFGSSDCPS SSKMRQALELVRERAPELMIDG EMHGDAALVEAIRNDRMPDSS LKGSANILVMPNMEAARISYNL LRVSSSEGVTGVPVLMGVAKP VHVLTPIASVRRIVNMVALAVL FVNADETTVNFHACFACVEV FTVRHTTNRYQHGVVTLRFSG CFFAFHRHINAVFFRFNIQAVFV ALRPEVIAIMHKLREQGHRVVV LSNTNRLHTTFWPEEYPEIRDA ADHIYLSQDLGMRKPEARIQH VLQAEGFSPSDTVFFDDNADNI EGANQLGITSILVKDKTTIPDYF AKDKARHRTPLWAWLKLLW QRIDEDNMTTLAGNLAYVSLLS LVPLVAVVFALFAAFPMFSDVS IQLRHFIFANFLPATGDVIQRYIE QFVANSNKMTAVGA\ASLAISS YLLSLIANVLMLMS*SVLRMS WNPKWAWSSIWYS
17772	48140	A	17878	31	312	RGTGHCALYRRAARCAKITL TTFISLFSSYFVIYNILLIYLIFA ASFCLLVV*CIITVFITVCSAGD VSGMSATWCAFVAISVDHFTG FNRF
17773	48141	A	17879	1	1098	
17774	48142	A	17880	1	1015	
17775	48143	B	17881	1	1917	
17776	48144	A	17882	931	1773	
17777	48145	A	17883	785	956	KKWMHSAV*WRKRSIRRVSSL GY*TQAKDRRFALPELRIVCS TVRRYVRRWRTNRT
17778	48146	A	17884	221	367	
17779	48147	B	17885	1	1318	

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17780	48148	A	17886	1190	1634	APSQTVSLPEVASSMSGVMAG VEAVSSPGPYAVCAGSLLPSGW LCVKTSVIAMIASAWSAPGAVS IKRSSAVSVRIWALCGA\QPECA VRSLPSYPAFRQVLAPVTHAL* PRRSSGCP*CDYSLQLLLQ*PAH *HLQGLLRKQLSCQR
17781	48149	A	17887	1	2499	
17782	48150	A	17888	454	1698	
17783	48151	A	17889	635	1665	KSIFWRAPADCEP/QVRQSAKV QFGDYQANGMMAVAKKLGM APRQLAEQVLTHLDLNGIASKV EIAGPGFINIFLDPAFLAEHVQQ ALASDRLGVATPEKQTIIVDYS APNRGFFGGGAPLGTTLQDLTR PTKEDGLQAKPISFWASFALQF VNVKIILYGVTALSTFVLPQTQ ALSWVVGVSVLLAMIGTFGNV CWALAGHLFQRLFRQYGRQLN IVLALLLVYCAAFSGKTSNDVA LLFRSQRVKANCITGYTDGQLR IFFRMLNCIFQSFAQNVNVQV LTTFNANFWHFYWNFTVFNV TQFAYCNHFIFCITCFENDATPF AFFAVQQPERVHRKTAILL
17784	48152	A	17890	73	212	
17785	48153	A	17891	2049	2445	VFPVFLRIYVFWKKPGMKVTN ARNWQLKPLFTELPVILPDTQL HYVAWMELYSAPAE*ERIQA*FV VWSWNIWLY*A*RLIQK*IALT PVVRTGKTKLMSAILFNITHR MKAMNLSSPKRRLPPRNCGKK
17786	48154	A	17892	1	1476	
17787	48155	A	17893	332	572	RGGA*RQKHRRTSALSLLSLP* NMATAVHLHRFSTRRAVTSSS ARKWTNSGAMSGLNRSASIAV LRV*QSPEDGCCARIR
17788	48156	A	17894	80	405	PRNLRKSGPPISDAISPTSKP*TI TEPISAPSLATYKAAGCGGTT QCTAINAVHSGMASFNEVLV FLAIEKARGINSTTPTSTNSVMP QIRPTSTIMTSTESQRQR
17789	48157	A	17895	1	1392	
17790	48158	A	17896	1	1374	
17791	48159	A	17897	1971	2306	
17792	48160	A	17898	209	449	
17793	48161	A	17899	1	240	
17794	48162	A	17900	1	456	
17795	48163	B	17901	222	3807	
17796	48164	A	17902	3140	3219	
17797	48165	A	17903	240	298	

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17798	48166	A	17904	1902	2047	NQPVYRSNGD/RIWRTGKLFPT TVFRLIRTLSPRAFPFTSYRRCS VAY
17799	48167	B	17905	1	1994	
17800	48168	A	17906	1	2151	
17801	48169	A	17907	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHGTDKTIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVRQ LAHDGHEL VYVPCRSHMDYL LLSYVLYHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPM LMTYLNQHVPDWRESIDPIEAV RPAWLTPTVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNICYLDLMRNP
17802	48170	A	17908	192	486	PVLVYLWVSFSWLCGRSLVCD AFGCVLVLCFVCWVCWGW SRCLVLRVLDCAVAWVCPL GVGIGLWV/RVLPTGLVSAVPC CCDVLARFRVDLCWG

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17803	48171	A	17909	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLTGTINNKAL PGDSTSGVLRTYERLLTAWML TCPCADEHQRGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQQIIAHMALKPT SSIDVPGRITNRFGEVEMITKG RHDPCVGIRAVPIAEAMLIVL MDHLLRQRAQNADVKTDIRC AQSIGSFSGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTSALLRPQAL DLVSRDGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLPDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFPSVSLRRMADE HGTDKTIAQKL\ARVARMHFA RQRLAAVGPRLPARQDLFNKL
17804	48172	A	17910	1	734	
17805	48173	A	17911	1	962	
17806	48174	A	17912	1630	2633	
17807	48175	A	17913	1360	1600	HSTGRWATTINVPITCGTKARH STSSICKTGMILLWANALKQHC LLSRNLP*KGESINVANSLLSYF NLRPQCNQTRTQD
17808	48176	A	17914	1	816	
17809	48177	A	17915	703	1546	
17810	48178	A	17916	209	485	QVIRPTFIPSTSSNGAISLPASTR RDS*MANAS*RCSLA*RATMFP A*SATSIFHARPGVEGT*IVRIV VIMLRLLSRRKVRGIRLPAAVLI
17811	48179	A	17917	619	1167	

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17812	48180	A	17918	1	764	DSGQQLDDVQLARYLLSGQNQ PKSDRPYRVR*LTGAMLKILIT L/VIEGNVTLGHRVKIGTGCVIK NSGDWR*LRNQSVYRCGRCES GSGLYHWARLPVCVLVLSCWK VLTSSLVPPD
17813	48181	A	17919	3	1462	
17814	48182	A	17920	122	983	
17815	48183	B	17921	1	1287	
17816	48184	A	17922	289	958	
17817	48185	A	17923	1	5079	
17818	48186	A	17924	1	255	
17819	48187	A	17925	1892	2448	TESRCADGAGSVDVGTEPVVP RVELVAKWPGSRAGGTGLGCS PWVGAGCVGGLGPQARLSGPT ASTEASAKAASLASLMWLRV RL*GACPFARTGATAPSSSKGP ELGVSGLRKATWMGRGSGCCT RGLGAGEWRAVPESCGLDESS EDSDDRDHAVPFSSSSCRRSML RPRRVARGLCRRRGV
17820	48188	B	17926	52	888	
17821	48189	A	17927	929	1148	TVWNGTCGLPFSSLMKCMVIM IMRAIQKKMMSKPDITLVGW N*RRASVFSGQPRVEKVHSAEE NQVSRTSSS
17822	48190	A	17928	125	937	RISMVFPWCFCSCSRTLATTPAP TVRPPSRIAKRRPSSIAIGWIRVT TILMLSPGITISTPSGSSMVPVTS VVRK*NCGR*PLKNGV*RPSS LDRMYTSDSNLHGLRPAVSPVT NTPA/SDGYYSHDGSLAQVDLS ANYHEGQYTSAGLSLQGGATL TTHGGALHRTQNMGGTRLLID ADGVADVPVEGNAAVYTNM FGKAVVSDVNNYYRNQAYIDL NKLPEAEATQSVVQATLTEG AIGYRKFAVISGQKAMAVVNF AEGKVS LAVV
17823	48191	A	17929	3992	4213	VPAIQKQFPRSWKLGGERPPKA FRLRLSAA*RKSV* AQRSLAD/ SGMPLRLEKCLDTF*TQIV*SAF KIQREGS
17824	48192	A	17930	1	1636	
17825	48193	A	17931	1	900	
17826	48194	A	17932	1	939	
17827	48195	A	17933	427	1250	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17828	48196	A	17934	521	805	LCPSNTSPLSCLLCDLVASTEM APMRVFQPAPKVNA**LFATIEP PYSVNKLLKPY**PAWTKSLCL LAPSIWLRPAAKSYFDTPGCSIF GTAA
17829	48197	A	17935	1	2052	
17830	48198	B	17936	1	573	
17831	48199	A	17937	1	1278	
17832	48200	A	17938	161	659	
17833	48201	A	17939	1	588	
17834	48202	A	17940	695	1281	KLKPYSWAFSRQSGRSVILTPPR VTVVVVAGFGPIPVFGTVMVRP GWAAP*FLPVASVYFP*AGLAG FLKKNRGCCANPAPPPIRRPIMY PP/MQRLQEPPADWWACAWFS GKD*\WKKSPPNCTRCA
17835	48203	A	17941	261	2045	
17836	48204	A	17942	1	637	
17837	48205	A	17943	31	280	
17838	48206	A	17944	1	582	
17839	48207	A	17945	1	2496	
17840	48208	A	17946	330	507	
17841	48209	A	17947	1087	1875	
17842	48210	A	17948	1	476	
17843	48211	A	17949	1	537	
17844	48212	A	17950	2	492	
17845	48213	A	17951	1	1101	
17846	48214	A	17952	2538	2833	TRRNWRPIQSSEESWRAAGSST PLTTQNRQQTAGIY*RSR*TAA RR*SPALPRRNRLATAG\WQY ATQTRQQ\RV PQL*LSAPATRK NRLLANAWLTM
17847	48215	A	17953	125	1831	
17848	48216	A	17954	2	825	
17849	48217	A	17955	1	840	
17850	48218	A	17956	1	1725	
17851	48219	A	17957	463	1824	
17852	48220	A	17958	2	117	
17853	48221	A	17959	1	2640	
17854	48222	B	17960	223	1560	
17855	48223	A	17961	638	746	RIP*MT*WS*KPW HKNYMMHA QASVDNLIKWKKG YQ
17856	48224	A	17962	385	514	
17857	48225	A	17963	17	225	SSPSKFTVAFFASLVMA SAVSL ALSLRSLTTL SI/CGLVLQEERT DDALVEQFSPIRRARGHAPQQE ATEM

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17858	48226	A	17964	1	521	LVFLVLFVGFSLSCFKSTYTLTY GDSPSLCDGLLII*IISRIDTNKPA DNSISGIRDVGWVAKSYQVA/V GERLHNRTPGTSHQSDTRFDF* LC*PGSACP NLVSEHERPQANM LVEASGR LAA*YQNALSCSFGY GVGLVRRQDFSSLGRFLQSAFA SNRY*QVVWVFEFQQVS
17859	48227	A	17965	267	554	LRFRFTRAVGRIFHRLDLLVLL GCNRYGRRGGDHGLCSVLVPR SLRLGRLPGGDSAAADAQSRH REKCR*DGVLVCDDQNRQTPV WKPHQEDVQV
17860	48228	A	17966	1	915	
17861	48229	A	17967	1226	1399	SDSNISICTCAQIH*KHFRII*NCT L*EVEP*RLS*M*LQRKCVQGE SKVHSLWGI
17862	48230	A	17968	828	1070	SFFDYQTSALEHARR*LHCRT* NAGWLP HRTDRSSGYHGR TCS AAGRCSSGDHSSYQQQNPAEK LPAGHPQRSGSPERTG
17863	48231	A	17969	45	1198	
17864	48232	A	17970	348	508	RLFRWCPM*SWASYFPPEQSL PDSYWLF*ECNLPTAYNSQNAIL RESHAIYS
17865	48233	A	17971	251	601	MAKKMSLSIAVFWRRLYAYY PHLR*KS*TNW/QWWSALS*A V*PNRS/IDSRWSIIWSVLFGML V/AT/ALAPAFWLRY*KKS FSA WNPTKSPRCLSNARPCCSLSKK ASLPWTIAARSR
17866	48234	A	17972	1	2121	
17867	48235	C	17973	1	1710	
17868	48236	A	17974	1	1335	
17869	48237	A	17975	1	1497	
17870	48238	A	17976	2	824	
17871	48239	A	17977	1	1965	
17872	48240	A	17978	1	3555	
17873	48241	B	17979	197	2021	
17874	48242	A	17980	1	348	
17875	48243	A	17981	1	891	
17876	48244	A	17982	1	679	

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17877	48245	A	17983	3	2502	EAIREVSNPIWPQEEIWITHREAVP PVQLLTGWCVTAKAPPDISAIS ALTAVKHGNCSSLTPLLNPPGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTVVAHVFG ERTMATLGRLLMSLLSPFDVVIW MTDGWPLYESRLKGLHAILV TFEEKFQEEPVKKQIIMVSISVS DTGGKKEKPKLINLSSKTNGLQ NTTEAQLCETKSDFELSFSGFNP ISIDTEDMKTGCCFQEQSVRRA YFKATSSPRRGLIITKLTTTRVDG YVADDPSSRRYSGHGDLLWPNA GNSCVETTVGSLLCVQAAPT HTLEGKHGCRNKEKKRLTHSG ACTYTFSELGLELWAWNCGKT EVNLGAVGKGVGGDRGFKKIH AKSQFTCSVLYTFTIKQGISLTL WSKVMHILEHLKENSQKLTSLC TRYQRVFGPTWLHETIFCKVAL TATLLAELEKTSTLQTFLDKIWI LGAQQHTGSQEPSQALLTCDPA WKKALRKVTQKGGAFFGVDN LGSSLSPPTDLLYEEQRLTSLSG SWFPICVMVELTLRAGSSPGGR LYVEFDQAVTKEPRFLQYKHY WDGAVAGSSILRQDSFVAEAST TITRIESPSVPSRSSTFLDDFSITQ QHRRHAGLSVMLSLSIISPPVRGL CQERTLRRDFRERLMYLDLEY QSGYCRLRTAGSEMQMVPDVL IFAHRSGLAGLFPGLDRRLVNA
17878	48246	A	17984	10	211	GSQSTIFTFAARWNLWANENT DTSISPLGVGEQRHCSSP*RFPD SDRCSPWSPRSQGQNQSPQTW Q
17879	48247	A	17985	1	1725	
17880	48248	A	17986	1	379	
17881	48249	A	17987	3	273	
17882	48250	A	17988	3	1157	
17883	48251	A	17989	76	378	
17884	48252	A	17990	1527	2005	
17885	48253	A	17991	578	1312	
17886	48254	A	17992	1	1758	
17887	48255	A	17993	1	2433	

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17888	48256	A	17994	1	537	SQEELLQQALVAQLA/HSEQLE GVQLPEPDEPSARHALPANEPRI VLNNGVVSYNDRPILNNLSWQ HIGYVSSSLHLDYRVSTTVRNV ILSGYFDSIGIYQAVSDRQQKLV QQWLDILGIDKRTADAPFHSLS WGQQRALALIVRALVKHPTLLIL DEPLQGLDPLNRQLIRRFVDVLI
17889	48257	A	17995	1	536	
17890	48258	A	17996	1	1319	
17891	48259	C	17997	74	341	
17892	48260	A	17998	3	103	
17893	48261	A	17999	1	745	
17894	48262	A	18000	1	663	
17895	48263	A	18001	2	297	
17896	48264	A	18002	8	340	VPANLSAIALFRRESVTPLAAL AASPVCAGRFVLLKNHRRDLP* ISVPVNSSSNSARSLVWHSGRQ QIAPDWSSKDDFMRLGKPNRFS VLLLATWIR*STVIRRSPTFS

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17897	48265	A	18003	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCASIQR QIDVSFARDATSHSSCPVTGVR FWGYFPAANKVVIAGFELEGET MTRPGLICAEGLLVMIVSLRS ELYDSYHEFTRQRVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIPQLNGQDQQLTLTVGE NGHYTLEGEEFTVNGMVGQRL EKDGVALTIADIKAKPGTQFVL SQRTELEAINALQETFTVSERSK ESGMLELTMTGDDPQLITRILN SIANNYLQQNIARQAAQDSQSL EFLQRQLP*TLKSNRPTPFSA*/ DDMIPNSSPESAPEIQLLQSRMI LGKTIAELNLRDIVEQKYFPI/D GSRLGEINQRKTR*AGDQLDAY STTEWSGSATDT\QVGENGHYT LEGEEFTVNG/NGRPASGKRWR CADYRGH*GQDQQLTLTVGEN GHYTLEGEEFTVNGMVGQRL KDGVALTIADIKAKPGTQFVLS QRTELEAINALQETFTVSERSKE SGMLELTMTGDDPQLITRILNSI ANNYLQQNIARQAAQDSQSL FLQRQLPEVRSELDQRKKNSTFI
17898	48266	A	18004	414	893	VFAQHGLTVAIAAHARDRWF VGRTAHANPPVRCSTDGSGRVP VTRYSGFVAAAVILLTASPRGG ECSREAPLCVSEYLLLSAGE YAPAPRCVLRVPSVDEDFVPV VPD*APPVEVALFLLRLTPVAR PADGGWLLAAIRPDALTSLAIV VLAAAR
17899	48267	A	18005	432	1108	
17900	48268	B	18006	1	753	
17901	48269	A	18007	46	282	
17902	48270	A	18008	1	1201	
17903	48271	A	18009	1	618	

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17904	48272	A	18010	1	1045	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRV MRQLKRLISRIAPSPSSV MVGESGTAIPVVS HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFFDWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDMFLA GFGFQF*PAGGW/WGSNPFPAK RYTRSKPYYT\GDNGYVAGWV AGYNFMLGSEKFTLTNWN EYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKKLA
17905	48273	A	18011	228	430	YPRQHRQADGSDRHR**/CWS A*IWANPTSNLPPCRFALT KRK RPILCAPPSRQSYAAWCRWEIRI A
17906	48274	A	18012	296	1178	
17907	48275	A	18013	1	1395	MPSDISLASCLRLATSRLFTDHR RQSDCMTAINRIPIVDEEDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEMDGIKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRAKGAFIKVNC AALRESLLESELFGEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSNQRDIIIDIPMA MSLLTAWSWPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTAL MLGISRRALMYKLQEYGIDPAD
17908	48276	A	18014	1	771	
17909	48277	A	18015	1	2154	
17910	48278	A	18016	859	1014	IKTGETHPGIGPSVM*RHSKAD LTHRHCGGIPEPQSVSFGSSQH GGGQFPPL

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17911	48279	A	18017	1224	1520	SPLVNQ*GA*KFFSRGNLFPQG ETH*KTKGVPCWTRYPDLRKRS DSAEIFKTPANASGRTSGSLGC AAQLEKVADGRDLDEKLAEAG IGGSNKTSVWQG
17912	48280	B	18018	182	2392	
17913	48281	A	18019	72	266	
17914	48282	A	18020	600	914	PYRGSPRNGHQLCDHCSHRLSE DPFVRYSNHCQISINYRCDKPP VRPLSPLHQKTDKHHQRPDRP FQWSAAPAHGRWRSGDS*ETP LHYAQPAGKLRWLWVNY
17915	48283	A	18021	1102	1171	LLGYGQQPPASNLLSEG*RSVV L*ISALRM*ALPPQKSSDAPNG WLPNRWPISSTHMIR
17916	48284	A	18022	1	1279	
17917	48285	A	18023	1329	1403	
17918	48286	A	18024	442	918	
17919	48287	A	18025	3	1345	
17920	48288	B	18026	436	988	
17921	48289	A	18027	637	1086	
17922	48290	A	18028	1	321	
17923	48291	A	18029	1	845	
17924	48292	A	18030	298	581	GARAEARAGSGQGAGLGVSSP VRWRGWSDKGAERPGGPLSPL REVSRAGPSG/HAARGQQPGRP RFPPPGPRPPRRRCPCTRARPGG AAGGGPCL
17925	48293	C	18031	450	604	
17926	48294	A	18032	1279	2253	

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17927	48295	A	18033	1	1957	MAQFHVSHPPAEWPRHVLLLM ADSKNELQNMNTGQTCGTRQT LKSKLQGWKNKPGIQSDPGSQG HPRCLKTFPLVAQSSTQERNHV MEKAVLKSQNWAIIIEFITKIG WFPDYSKGKVKYLSSPKSSCTTV LQVTHFSLFFHPNPDELVSKIKV WSKHRLYQNNSEAFLEVQIPEP KCEVYSMRTMGRRQPGTAMD LNAGGSICNVPRTLLHLTGSTF RDRQRVGAYLDIRGWYILVLV VDKEKLGIPGQKQNSSKILFGSE KLKQWVYVKNHAKESITQEAM GIWVGQQRKRQPLGYEERKLT NRKDIHIKNPSVCHHHQRPKVD KTTKMGGKQSRKTGNSKNQST SPTLKESSSPATEQSWTENDFD ELREEGFRRSDYSELQEEVQNN GKEVKNF GKKLDEWITRITNAK KSLKDLMEKTKARELCDERTS LSSQCNQLEERVSVMEDEMNEI KQEEKFREKRIKRNEQSLQEIW DYMKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLARQANI QIQEIQRTPQRYSLRRATPRHIIV RFTKVEMKEKMLRVAREKGRV THKGKPVRLTADLLAETLQAR RQDTHRLKIK\DGGRFTKQMEN RKRQGLQS*SQIKQNLNQQRSK ETKKAIT*W*RDQFNKKS
17928	48296	A	18034	1	2838	
17929	48297	A	18035	1	897	
17930	48298	A	18036	26	308	
17931	48299	A	18037	749	1020	
17932	48300	A	18038	1	1773	
17933	48301	A	18039	1	1890	
17934	48302	A	18040	1	756	
17935	48303	A	18041	399	660	CPPEAVMPRRHEPVWEMTGFF LPDVLLSDSSDTSEGFRHLHLET WAPFLCRCLSLRLIS*HHHQTT GNSSPPVSASQHQSVDRDSL N
17936	48304	A	18042	909	2005	
17937	48305	A	18043	1	490	
17938	48306	A	18044	104	775	
17939	48307	A	18045	170	451	
17940	48308	A	18046	1	207	

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17941	48309	A	18047	146	678	LGFLRLSEMPRKQGDYRTRIW KFEDGLSNVLVIQLNKLIIICVM CLVRDCDVLKTYFHR*SGLLPI KDTS/RPFTRVTVQWGKKNDQ TFQGLLDTGSELTLPEDPKRHC GPPVKVGAYGGQVLHSHWAPI YHFLSSHNCNGFCYISIANLPKK FGQNIKECLTNNRIVPFNCVQD
17942	48310	A	18048	270	1444	
17943	48311	A	18049	700	1062	
17944	48312	A	18050	3	1096	
17945	48313	A	18051	1	1500	
17946	48314	A	18052	1	6215	MEDNLISINKIKILLAVSDGEIDE TFSLKQLMFNSVPVQNEGGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTVNREVTTDNPYTISVT NKTLSAIRIKMFMPRGVRIESN GDKNGVRVEYEVQQAVDGGSF ETVLTDVIEGKTMSGYDRSRRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAIQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA
17947	48315	A	18053	1325	1417	
17948	48316	A	18054	1	4971	
17949	48317	A	18055	251	1091	
17950	48318	A	18056	1	2277	
17951	48319	A	18057	2	448	KNDKGDIIVTTKSGGRGTSTVS FKLLKPEKI/GSKFSQKDLEMLF HGMRAFTSENFSAAWYLIEN HSNTSFEQLKMAVTNLKRQAN KKSEGLAYVKGGLSTFFEAQD ALSAIHQKLEADGTEKVEGSMT QKLENVLNRASTADTVYE
17952	48320	A	18058	124	984	

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17953	48321	A	18059	142	1393	DKKPGMVPPPPGEESQTVILPP GWQSYLSPQGRYYVNTTTNE TTWERPSSSPGIPASPGSHRSSLP PTVNGYHASGTPAHPPEAHM SGRKSTG\DSQNLGSSSPSKKQS KENTITINCVTFFHPDTMPEQQL LKPTWEWSYCDYFWADKKDPQG NGTVAGFELLQKQLKGKQMQ KEMSEFIRERIKIEEDYAKNLAK LSQNSLASQEEGSLGEAWAQV KKSLADEAEVHLKFSAKLHSEV EKPLMNFRENFKKDMKKCDHH IADLRKQLASRYASVEKARKAL TERQRDLEMKTQQLEIKLSNKT EEDIKKARRKSTQAGDDL MRC VDLYNQAQSKWFEEMVTTTLE LERLEVERVEMIRQHL CQYTQL RHETDMFNQSTVEPVDQLLRK VDPADKRELWVREHKTGNIRP VDMEI
17954	48322	A	18060	1	435	
17955	48323	A	18061	3	926	
17956	48324	A	18062	3	693	RPPLAYLRDGDARAGLNLQL AVLAMLSSRKMFCCKSGQSYS PSRVLITENDVKEGLQRSHILYD RAGEEHYNCISALHKSMRGS QNASLYWLARMLEGGEDPLYV ARRLVRFAS\SEDIGLADPSALTQ AVAAAYQGCHFICMPECEELLA QCVVYFARAPKSIEVYSAYNN VKACLRNHQGGLPPVPLHLRN APTRLMKDLGYGKGKYKNPM YSEPDQEYLPEELRGVD
17957	48325	B	18063	1	2020	
17958	48326	A	18064	19	404	
17959	48327	A	18065	1	407	FRATITSAKMGAYKYIQELWR KKQADV MRFLLRVRCWQYRQ LYALHRAPRPRTRADKARRLGY NDKQGYVIYRIRVRRGGRKRPD PKGATYGKPVHHDNQLKIAR SLQSDAEPAGRHCGALREQSS Y*VGEHST
17960	48328	A	18066	53	431	AKKGAYNYIQELWRKKRADV MRFLLRVRCWQYRQLSALHRA PRPTRPDKARRLGYKAKQGYVI YKIRVRRGGRKRPVPKGATYG KPVHGANQLKSAQSLQTGVQ ERPGHP*YAMRVLKAYRARPD
17961	48329	A	18067	5	328	

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17962	48330	A	18068	93	836	AKMGAY\KYIHELWRKKQSDV MRFLLRARCWQYPALHRAGTE WQLSALHRAPRPTRPDKARRL GYKQ\AKQGYVIYRIRVRRYI*D SCSPWWLKTAQFPKGCNFTGK PVHSWVFNQLKSFASKAFQFR WQEGGEAWDGTCCGGLLEEFNL FFNWVWV/GKIST*QNFFEGLIL I/VIPFHKs*SEENPDTQWDQPN QSHKHR\EMRG\LTARPEKSRG L/GKKGHKFHHTIGG/SLRRAT WRRRNTLQAPPLPLI
17963	48331	A	18069	1495	2055	
17964	48332	B	18070	125	2530	
17965	48333	A	18071	345	800	RWRLQNLSFCSSCSGSGSEGAT CFARGR*RPPGNSLNVSRMGTR SSYSCRRHSPAFLSWGKGRCHL CNKAHLLAGA*HYSFLSGSAPY *N*VNGQI**R*TAHRSTPDAPT GH*NCCS*L*CHSY*QRA*PGY RHD*CRMCC*CADCShAC
17966	48334	A	18072	181	1687	
17967	48335	A	18074	205	1734	
17968	48336	A	18075	1	705	
17969	48337	A	18076	590	685	
17970	48338	B	18077	1	881	
17971	48339	A	18078	1043	1248	ITLGIMAIFTVLILPIEHGMVFH LFVSSFISLSSGL*FSLKRSFTSL VSWIPKYFILFEAVVNGSSL
17972	48340	B	18079	1	1977	
17973	48341	A	18080	805	1153	AWKVLPPFVSFCF\SSGL*FSL KRSFTSLVSWIPRYFILFEAIVN GSSLMIWLSVCLLLVYKNACDF CTLILYPETLLKLLISLRRFELLF LSMFSASFRSSCKAGLVVAESL
17974	48342	A	18081	471	1442	IWSFHIVPYFLEALFV*GVRKGS SFSFLHMAGQFSQHLLSRESF PHCLFFSGLSKTR
17975	48343	A	18082	188	355	
17976	48344	B	18083	1	1677	
17977	48345	C	18084	35	1816	
17978	48346	A	18085	557	724	
17979	48347	A	18086	179	346	

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17980	48348	A	18087	135	1461	INRIYILLSTTSHLFQN*PHSWK* STPQQM*KNRNYNKLRLRPQC NQTRTQDEETHSKSLNYMETE QPAPE*LLGT*QNEGRNKDVL* NQREQRHNIPESLGHI*SNC*QD **RRKERRIK*MQ*KC*RCNKN AKGVITTDPTIEIQTIREYHKHL YANKLENLEDTKFLDITYTLPR LNQEEVESLNRPTGSEIEAINS LPTKKRPGPDGFTAIFYQRYKE EQRIKYLGIQLTRDVKDLFKEN YKPLLNEIKEDTNKWNIPCSW IGRINIMKMAILPKVIYGFNAIPI KLPRFTFFTELEKITLKFINQKR ARIAKTILSKKNIAGGIMLPDFK LYYKATVTKTAWYWFQNRDID QWNRTEASEITPHIYNHLIFDKP EKNKKWGKDSL FNKWCWENW LAICRKLKLDPFLIPYTKINSRW IKDLNVRPKTIKSLEENLGIPFR
17981	48349	B	18088	1	2016	
17982	48350	A	18089	659	826	
17983	48351	A	18090	3531	3878	
17984	48352	C	18091	1	2793	
17985	48353	A	18092	1607	1774	
17986	48354	B	18093	1	1666	
17987	48355	A	18094	1	1068	
17988	48356	B	18095	1	1549	
17989	48357	A	18096	557	623	KKWINYWTHTPSQD*TRKKNL P
17990	48358	B	18097	1	1231	
17991	48359	A	18098	263	1461	GGSSCYPSWEATIRTA KMVTLR K\RTLKVLTLFLVLFILTSFFLNY SHTM\VA TTWFPKQMVLESEN LKRLIKHRPCTCTHCIGQRKLS AWFDERFNQTMQPLLTAQNAL LEDDTYRWWLSLESVMFSVTM GFCLQRPFGDKQGTTPVYINQ TGRDLTQQQLQREKKPNNLN DTIKELFRVPGNVDPMLEKRS VGCRRCAVVGNSGNLRESFYG PEIDSHDFVLRMNKAPTAGFEA DVGTKTTHHLVYPESFRELGDN VSMILVPFKTIDLEWVVSAITTG TISHTYIPVPAKIRVKQDKILYH PAFIKYVFDNWLQGHGRYPST GILSVIFSMHVCDEVLDYGFGA DSKGNWHHYWENNPSAGAFR KTGVHDADFESNVTATLASINK IRIFKGR
17992	48360	B	18099	1	4855	

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17993	48361	A	18100	571	4189	FSLKRSSTSLVSWIPRYFILFEAI VNGSSLMIWLSV*AKILVQRA* VLAFHPS*LRFKDQVVVDMW HYF
17994	48362	A	18101	7449	7626	SFRSRLFSFHVVVELF*VSFLILSS SLIALWSERQSVIISVLLYFLRS AFLPTMWSILE
17995	48363	A	18102	63	329	SGQRRKEVPSPTLPAPPFILKKK EWPDPPRSFFSGGHWAKSSCPS DCSSQLMAC*/CKNAKHQKDN SCL/STHMKGNSEK*NSGYQ GLG
17996	48364	A	18103	2	618	GAFLLEVATAAGLSAGLTRLGS QVGGAMRRSKADVERYIASVQ GSTPSTLQKSMKGFYFAKLYYE AKEYDLAKKYICTYINVQERDP KAHRFLGLLYELEENTEKAVEC YRRSVELNPTQKDLVLKIAKLL CKNDVTDGRAKYWVERAAKL FPGSPAIFYKLKN/DGWVRGQM VPKPDDEGVQVRGRSGRPDAG WRLNRRSSVGGSAW
17997	48365	A	18104	1	995	
17998	48366	A	18105	1	513	
17999	48367	A	18106	62	521	
18000	48368	A	18107	1	375	
18001	48369	A	18108	76	480	LVKVCHCTYHHFLTGVVSLPR DGGKGAPCWGRARSPKSALLP YLAPGRG*VGTYEVQN/PNGTS PVQSPATDVGRSPALGNQEP/G T*SPGPQIGRGVTGTARPHTGV SRDSWRRPPSFILNAVANIPKGN APIPKE
18002	48370	A	18109	445	1128	
18003	48371	A	18110	784	1189	IPLGKLLLKPVGAPQIERFPFQIP VPLCSLSFSPSHSPSSSSARS*VRQ ES*LGTPGSAPTGSP/TSHHPSAS SPPHPSAKAAFLSFVCFLCS*PPP SSCHPCGLGPGPDPSQKMMICT VAHLNQSLIFTVVKVHLL
18004	48372	A	18111	1	2088	
18005	48373	C	18112	169	213	
18006	48374	A	18113	1145	1229	
18007	48375	A	18114	1	975	
18008	48376	A	18115	1	750	
18009	48377	A	18116	288	368	
18010	48378	A	18117	34	168	
18011	48379	A	18118	479	1579	
18012	48380	A	18119	2279	2398	SDCSCPL*GPPGRWHKRRKSG SPHLSTPEGTPALTSQA
18013	48381	A	18120	21	190	

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18014	48382	A	18121	1	1773	
18015	48383	A	18122	18	290	VAGTWPNFLKKVGVGKYGTR YGASLRKMOVKKIEISQHAKYTC SFCGITKMKRRAVGIWHCGSC MKTVAGGAWTYK*V*FLVVFG SVWTT
18016	48384	C	18123	325	486	
18017	48385	A	18124	1	498	
18018	48386	A	18125	3	306	RQEIDSIHQVGVYCLALVPANT LPKTPLGGIHSQTKQLFLEGL HPCNLMCPHTCVTNLPKPRQK QP/WCRPCFRDGWESGCWKTY STSCWKSGGTNRRE
18019	48387	A	18126	1	1197	
18020	48388	A	18127	1	390	NSRVDDFVAPGLSEAGKLLGLE FPERQLAAAVG/CSPMSGVIS MSAPFFLGKIIDAIYTNPTVDYS DNLTRCLGLSGVFLCGAAAN AIRVYLMQTSRQRVVKRLRTSL FSSILGQEVAFSDKAGTGELI
18021	48389	A	18128	1	695	SGFMDHLEEKADLSELVEKEEL GFFQYYRERCHQKVYHPITKPG GSAKDAAPGGGHHQAGPGQG GDEGIRMMFCVSPNRAFVVS VVPLVSIIDVIYGRYLRLTKVT QDSLAQATQLAEERIGNVKTV RAFGKEMTEIEKYPSKVDHVM QKARKEAFARAEGVILNEKSFQ GALEFKNVHFAYPARPEVPIFQ DFSLSIPSGSVTALVGPSGSGKS TVLSLLRLRYDPAS
18022	48390	A	18129	1	2136	
18023	48391	A	18130	1	822	
18024	48392	A	18131	257	388	
18025	48393	A	18132	1	765	MVNALSLAARIHAEVPADESPE MTEGYEGFYHLASMKGTVERA DMHYIIRDFDRKQFEARKRKM MEIAKKVGKGLHPDCYIELVIE DSYYNMREKVVEHPHILDIAQQ AMRDCDIEPELKPIRGGTGDAQ LSFMGLPCPNLFTGGYNYHA/P SPKFSAVSAMLLASASSAGRCG ESIFSPLAYTSSPIESDSCGPAL* RFLRH*P/EIFLTQPVF/SENEAID IWN\SPTASVSPLMPSRQNAVRE LFLLTVRRPTGTD

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18026	48394	A	18133	1	1166	LTHWVYHLYGIQRILIHIPSTSQ PNRVRGDIPPLQRIVVPVTIVVQ PRLIMLLPWQTVRLVQVMRV LLIKLVAPFIILPAPRRIAVFADE RQRQAPVVAVVKMNFSSRRCVF RLHLSGQLLHRQPALRKPRPAF TAHAVCPDFFLQPVQQPHQFSR EHHAVAVLTPFLRLCQAAPL RFFPLAVLCLDPDERREASRLV YRLDTGVSLSHRRQPVSVPAIS LALPMLAILVVQTIFMALYAIF VTWRMMGKNYDAAVLAAGH CGFGLGATPTAIANMQAITERF GPSHMAFLVVPVMGAFFIDIVN ALVIKLYLMLPIFAG*PMKRR* K/SPPQQRQMPDTRLRLSSVPSA SSVLSGLLPVVGNVREYGVPGA ELPGSSPDRAVNPPL
18027	48395	A	18134	48	314	LVPMTWVIEASYSIMRKKVGE HPHFLDIAHQAMRDCDIEPELN PIRGGTDGAQLSFMGLPCPNLF TGGYNIMVSMSL*LWKVWKK RCR
18028	48396	B	18135	83	3044	
18029	48397	A	18136	1	1080	
18030	48398	A	18137	3	979	DAWADAWSKKADVIVENP/D TKEKKPEAKK\VDAGGKVKKG NLKA\KKPKKGKPHCS\RNPCP CKKEIGRNSRSGMYSRK\AMYK RK\YSAASK\VEKKK\KEKVLA T\VTKPVG\GDKNRR*PGVVKL QKCPRYYP\SLEDVPRKACLSH GKKTPLVQHVEKNCEASIYPRG PF*FILTGR\HRGK\RVGFPESSL AKLAYLLC*LGPLVLKSEVPL\R RTHQKFCHLPLSTK\DISN\VKI PKHLTGCLLSRRKKLRK\PR\HQ EG\EIFDTEKEYENTEQRKIDQ KAVDSQILPKIKAIPQLQGYLRS VFALTNGIYPHKLVLNCLKNP
18031	48399	A	18138	858	1418	
18032	48400	A	18139	97	516	
18033	48401	A	18140	1	219	

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18034	48402	A	18141	110	768	NLFSGCVESTFRKQPAHQRRSR ARAETMQRRLLVQQWSVAVFLL SYAVPSCGRSVEGLSRR/LLKP MRPKNVHVPTKVTTYKRAVSE HQLLDKKGKSIQDLRRRFFLHH LIAEIHTAEIRATSEVSPNSKPS NTKNHPVRFSGSDDEGRYLTQE TNKVETYKEQPLKTPGKKKKKG KPGKRKEQEKKKRRRTRSAWLD SGVTGSGLEGDHLSDTSTTSLE
18035	48403	A	18142	338	661	
18036	48404	A	18143	443	661	
18037	48405	A	18144	474	531	
18038	48406	A	18145	208	317	
18039	48407	A	18146	1	807	
18040	48408	A	18147	1	1122	
18041	48409	A	18148	283	2204	ASPMAPTSLCVPTLLPSLNQTSS SSTAPTGKASWGWPMLRLPGL TTPWSLSLTLW*SRPTFTSSPC SFVVLASPSTSLKCWPLSEGA
18042	48410	A	18149	208	1212	
18043	48411	A	18150	202	1677	
18044	48412	A	18151	1	3285	
18045	48413	A	18152	3	2206	
18046	48414	A	18153	1	1041	
18047	48415	A	18154	2	1460	
18048	48416	A	18155	1	792	
18049	48417	A	18156	51	362	AHGAAWPSHRKDRESADLGSD GQNGQDLWDGGGCRRC*RC DVLCWGAPHTFRHSYAMHML YAGIPLKVLQSLLGQAPCRCG LGQNVGTALPLVSGGPMLFP
18050	48418	A	18157	609	690	
18051	48419	A	18158	1	2055	
18052	48420	A	18159	3	2236	
18053	48421	B	18160	406	454	
18054	48422	A	18161	1	2151	
18055	48423	B	18162	1	1215	
18056	48424	A	18163	1	594	
18057	48425	B	18164	1	1380	
18058	48426	A	18165	441	692	

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18059	48427	A	18166	2	1311	QHVRSTVTELWTGNFVNSIQTA FAAGIGWLITFCSKGGDCLTSQ TRLRLSGMLFLNSLDAKEIYLE VIHNLPDFELLSANTLEDRLAH HRWLLFFHFGKNENSNDPELK KLKTLLKNDHIQVDRFGCSSAP DICSNLYVFQPSLAVFKQGQTK EYEIHHGKKILYDILAFAKESVN SHVTTLGPQNFPANDKEPWLV DFFAPWCPPCRALLPELRRASN LLYGQLKFGTLDCTVHEGLCN MYNIQAYPTTVVFNQSNIEYE GHHSAEQILEFIKDLMNPSGGS LTPTTFIELVTQRKHTEVRI/V*F HCPGWPPWPRLWPMACKPRNL LP*SSRPLNT*SSLFCSSNQPDLR GPLLHRPLSLPRRYRGAQVPNP DFGHYSVSPSLIHGLHQCSHLFS HSPPPRVLRPPRILTTSTGLPPSP RRSATDVHTAYPTAD
18060	48428	A	18167	1	924	
18061	48429	A	18168	10	1254	
18062	48430	A	18169	1	618	
18063	48431	A	18170	1	460	MAAPMTPAARPEDYEALNAA LADVPELARLLEIDPYLKPYAV DFQRRMFWMFLPFFTLAFSPSV LVRFAADKDIPETGQFTKGRG LLDLQFQVAEDASQSWQKLYL LPNCSGQPHQKLVPTAQKFYIT VEWGTFFSVPGQVVGSEGSQM SVTVEGSESEDDKMYMTCSS ALLDSFALC**RHT*DWAIIYKR KRFIGLTVP/MWLRMPRNHGRS CISCLIALANHTKNWFPQRRSFI SQWNGVLFSQCLAKLWALKEV RCQ
18064	48432	A	18171	1	582	
18065	48433	A	18172	1	1578	
18066	48434	A	18173	1	1293	

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18067	48435	A	18174	344	1358	EAQSVTNHKRNSDCTFKEDNSL PVRKPSFLITNPGSNQGPRFAGS PLGHEFTSLVLALLWTGGHPSK EAQSLLEQIRHIDGDFEFETYYS LSCHNCPDVVQALNLSVLNP RIKHTAIDGGTFQNEITDRNVM GVPAVFVNGKEFGQGRMTLTI VAKIDTGAEKRAAEESARKGIR TGLMGERFGGQILDTVDIENYIS VPKTEGQKLAGALKVHVDEYD VDVIDSTGTRSS/AISGFFHTYDS NSPTARCAPT*QNCAPSPSGEY APGEKAMRRRTILVWRHCDY/PL CNAGNFVSMISRATSNTIATMII *GVCTDNTRLCLYALNCSGDIL SRTSCD
18068	48436	A	18175	1	1561	
18069	48437	A	18176	884	1171	PRRLNNEHDKRLMSWLHCLVP HHAKWLQRWQWQSAKV*FA *IRAVNFVTAYRAIIYQQSRKQ HRYLRSACHGRSIIITVITQSPTK SSATKMPEN
18070	48438	A	18177	274	416	QADDDADNQSGDTDAAFGALI Y/CESDDLCL*LPALPLCVM WYQTM
18071	48439	C	18178	24	509	
18072	48440	A	18179	1	1932	
18073	48441	A	18180	1	2583	
18074	48442	A	18181	1	495	
18075	48443	A	18182	36	798	KQRHSCFWSCWFSRAG*LGEL V*NPEIA*RPPRPQQQT VSGNG AWSGKAPRRRHSWHY/YTISFQ KLPLVECTNAGPIF*VAKAGRK CSIKPPLTSRSYITD*PVSLRSQ LTGR/AGNFVTGW/QQLDEEIR YTMRTTVNAQTRDRRKGVQPP TTWIFNDTKDQLERRIARLETG MAWAEPPSRTRHLISNCQISET DIPNVFAVRVNYLLYRAQKER DETFYVGTRFDKVRLEDDTG ASWNGNRTGSAGIISIT
18076	48444	A	18183	114	724	ARTRVPHFPGHETAGGAAHP HLSLLGQDPGNQTLPGGRGGI PGGRGGGRGGGGGGDDGRRR ALRRQQVPVLCVQRAGPAMDA AAPRHSSPDRERPKDQEVHLRL PGHASHSPHLGRHAGQPAGPA GLWQAPGLRHHLHAGIQPPE/V TNTTLTALT*TRRCPAFSSGTVK PLIFIWNLAAGPPLLRKGAASIW ICSCSIFQR

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18077	48445	A	18184	1	2130	
18078	48446	A	18185	2	433	EMTLDSRVAAAGDLFVAVVGH QADGRRYIPQAIAQGVAIIAE AKDEATDGEIREMHGVPVIYLS QLNERLSALAGRFYHEPSDNLR LVGVTGTNGKTTTTQLLAQWS QLL/GRNQRGNGHRW*RPAGES DPDRKYNRFGSRCSA
18079	48447	A	18186	114	586	SYITALGQFSRSGIQLLDRLGNF GTGWPNFDRKRFGSTMRRTVN GQTR/GPPQRRPAADNLD**H QRPAGAA NRPSGNHGLGRRRA AVTHPSLNQQLPDKRNRHPKRI CCAGKLSALSGTKRSAMKHS LERVSTKFAVWKMTTGACWN GISSWIKR
18080	48448	B	18187	1	3577	
18081	48449	A	18188	2	861	YHSINAASACSALHPVAFLTILT CRTCSSLVATTSTMRLPNTLP DLIISPVESILSTSFCVPAFIRE PVTTSAPTIGVMANSAVVETAL PGLQEIPTRVQPSWRAYSSPAIT YGVRLAAMP/SHHILCR*INIF QIINTAFPAIFRAFHRVLNGIFSA SNQTNHQTRFHAVCGRTFGDV GWVAKSYQVAEERGSITEHQV QGHQSDDTEHFHGGEIERQQQ HYHRQRGDPVGEIGEPELSISR RHHVCHTGYNPAEPVSPAGEIS NGTANGNKLNMVSCEIAP
18082	48450	A	18189	560	2021	
18083	48451	A	18190	525	804	GG*CRNWCDHYANGCRDTS LYDKLAELGPQGLSPR*NNWQ TARRNQSSGRNSCHLRREVE*R RLDKALRRIRQFSAPDEGAKCP WPGIIDCSNHFA RLRCQYGRFL EVTSAGDEKPYPLYDHHVGLV VEQLRCIITAKVRTRHFYYVLK SIHPAVAGLPALRDCGELFNSV YCRKPATGPQLQADVMVVVAY GLILRKQCWRCRVLAVSTFMFT AATLARCCTNPTLTRAGDAET GVTIMQMDVEIPVVRCTTSWQ SLAHKAYHHVETTGRRHGETR VQDETLVTYAEKLSKEERVLTG HFRQHSLNAALRFQSMANELA
18084	48452	A	18191	1	266	SQYPLVAGHEVIGRVVALGSA AQDKGLQVGQRVGIGWTARSC G/QLRRLY*R*SDQLRARCGAD DYESRWLCREVACGLAMGDST ARKY

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18085	48453	A	18192	5	385	
18086	48454	A	18193	330	598	VMRFAIVVTGPAYGTQQASSAF QFAQALIADGHELSSVFFYREG VYNANQLTSPASDEFDLVRA/S ATTECATWC GA EYLRSGSITPW RC
18087	48455	A	18194	1	2652	
18088	48456	A	18195	1171	2091	
18089	48457	A	18196	486	837	
18090	48458	A	18197	1	2943	MAIYKQSQHMTEVVRRCPHHE RCSDSDGLAPPQHLIRVEGNLR VEYLDDRNTFRHSVVVPYEPPE VGSDCTTIHYNMCMSSCMGG MNRRPILTIITLEDSSGNLLGRN SFEVRVCACPRDRRTEENLR KKGEPHHELPPGSTKRALPNT SSSPQPKKKPLDGEYFTLQIRGR ERFEMFRELNEALELKDAQAG KEPGGSRAHSSHLKSKKGQSRL GTRFLCQPAVTVIPKIVRVTG DTVIRPHAEGAVRVQLRVGQA VTCRVCGIRDADIQIRCGGVNA GQPAGGAVAVTPGLARAADAD EFAVVVPGQPFHGGQAVRYTA VRQPLRVGRMSGLMLAKTCFR LQVMHRLTLTVFSQKVFTESIE VVEALKVNLMRVFLRRMDLRQ HRKMIMIDNYIAYTGSMNMVD PRYFLRDALPHCPNPLTGPTFA VLEKLGYPHTFVSTDFNTVALD VKTFGIKANDDKAKLKALGEIA HACVDATIIYCKSPTVAGLVAR ELIKLGHGTPTENPHVYWSPLE TVLACILARYRGHCSNTLATNS MLENCAFCSAPPRSLKESTLSL NTVVIYDNRDGT SIDKFNRFCI HAFPKIIRNAIYEVEQHT*RACR YQ*DVGWFNIYQPGISLAASKH CSTSSR*RWI*LDWI/CASASLL DEATAAAEAMAMAKRVSKLK NANRFFVASDVHPQTLDLMSY
18091	48459	A	18198	643	776	
18092	48460	A	18199	1	1257	
18093	48461	A	18200	3	346	
18094	48462	A	18201	1120	1335	
18095	48463	A	18202	312	1108	
18096	48464	A	18203	1	744	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18097	48465	A	18204	381	1112	GVEPSPTNPPATAIPRATCVA AARAASPS*SHQPHPPPLAYD RCST*PTPTTTAGQDHDHGR WRSAPAPRSDHLSMDLQE/RSM SLLPLILSSTRSGSNPLRSTFLSR SRSISKNCSEV*SNNSAGVGTI STS/RSTYDINRADTQVRAVN NYDIIVMSNSFNGQSEHQVWIG GQF/ILHQICPLTQFYGAEPDR KE*CQAPASKWALLHK*HRFPF QDRKAGECLLHEYEDLYPSVIH
18098	48466	A	18205	2	307	HPARHKFVKGSSEHRKSPVKPP PIPSH*PP*PENTNPMRPLAPTDP VTNLRSLMTGRQRFTPYNNVS RSDPSTTARSSADRVNASEYP TSSEETSGRSSR
18099	48467	B	18206	1	723	
18100	48468	C	18207	127	1410	
18101	48469	A	18208	1	1773	MGKKQSRKTGNSKNQASPPP KERSSSPAMEQSWTDNDFDEL REEGFRRSNY\SSY*EEIRT*WQ TSLKALKRN*MMM/ILLASPSR TPISGPNPAGPKFVKAAATT GKARQRFHPATTTFHGRTPAPP LAHPAPTVPASTQHPARRHQ VARPDRSSTPLPARIALRVFCPT PSTAPPEHPRQNPAPQTDSA LPGADDVRVSTTDPERRHPHPT NTTTPGGRVLRKELNRPRRI HHRRRRFHVQRAWQLPVPHRH HHLDTSHTRRRRLRMTDVRDL RPQQRPPRITITTVGGDQRLRL DRSYQPESPCDGLRQLQ MAG RAPCSPLSMLVLEKCDNLKTH TSHGSVMAETA VINHKKRKNS PRIVQSNL TEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEHDGI CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKQNAKNEHGTSSSLPTQFK TDHMESQKDHPHKEETSPKVP HLVQESQKDHLHKEATNLKVP HPHPGKPGPPPPQEGNKPQRPP PPGRPQGGPPPGGNPQQPLPPA GKPQGGPPPPQGGPRHPQGGQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18102	48470	A	18209	944	1577	RLCCLEISSTGYPKSSISSSKYPQ IPRAGAQCSQAV*SGSNPLRSTF LSRSTRSISKNCSEV*SNNSAGV GTISTS/GSTYDINRADTQVRRRA VNNYDIIVMCNSFNGQSEHQV WIGGGQF/ILHQICPLTQFYGAE PDRKE*CQAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPTHHAYD
18103	48471	A	18210	3	634	DRVFDGSGSKWRSEQDWAAAK AVGQCSSENGDWRCCGNGRYP ARGPAVPA*PSLCLHHPR*RCT CCMPVYR
18104	48472	A	18211	3	255	
18105	48473	A	18212	101	547	TSVELMDLCPILRCRTFSGIPAY SMCIA*EWRNVCVGTGTENV PSAAAAATASPIQVLTVLSVTS QIRAFSVLPVRRRLRRSMLSRLN TCRTEYPRCAVVCLLWKDAVS CLSTTFCARLCGQNTWLPRPCR HVNRAASDASVSLSTVT
18106	48474	B	18213	1	1113	
18107	48475	B	18214	220	1173	
18108	48476	A	18215	1	509	MPNHKAILIKFKKTEIIPITLLDH STIKIEINIKKIAQNHTITWKLNN LLLNFWPLTVSLCEMCKDFYS LGIEFSRFPLQELQNKDCALEK/ HSHWAQMWP*YCPAKHWWWS CRREHVLVVN/DCSTS*NSYWH FSD*LRAMKRRNEQCKR*AIRS LSRSLPARQDLKLLS
18109	48477	A	18216	3	281	
18110	48478	A	18217	878	1135	
18111	48479	C	18218	1	1602	
18112	48480	A	18219	33	608	VDSLRFQSPSCSVYSTDTR*ISE T**NKL*PPKPVIACPKMWIQV GQKFRQKAAATP*KAR*SPRPIP SH*QP*PKIQTRCGPQPPQIRSPT QKPHDRQTALSHRTTTFHGPTP APPLAHPAPTSTPASTQHPAR RHQVARPDRSSTPLPARIALRVF CPTPSTAPPEHPRQNPAPQTD SALPGAVRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18113	48481	A	18220	3	893	NPRKRTEQGKAQNKVQWWLT RTPVMVQKRPTIVSLKSSPDSPL ETYSMFLFLGMWVGVGVE/C SVKLEEQVNTYHYQRILLGISS DNAILLEEESEEGRPMHISTIKE PSPDSPILYLTLNLKLLTSLILFH YGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHSIS STEVYTKVFALDVAARHRVQF AMPESDAVAMLKQLS
18114	48482	A	18221	1	327	LISLRQRQRTPGKPGKGPRPIP SPWPP*PENTNPMRPPSPTRSGH QPRSLMTGRQRFHTAQQRFTV RPQHHRSLIQRPCQRQRPNI QRGDIRSLVQIGHQRRLRG
18115	48483	B	18222	1	1419	
18116	48484	A	18223	1	2784	
18117	48485	A	18224	936	1157	RTSTGLSGCIRCG\CASEGGQAV FV/WPRGPPETPCSRCPAAEGSP G*SPPREDPSSGSPGKRQTCTQT SARSPS
18118	48486	B	18225	67	1314	
18119	48487	A	18226	302	1423	CRWRFRFIMPFVMASMSAECL MNYNSTAMSGKTGLQNDTTLI ARPWVKPYLGLEIMRIVGN*PH LTWCFPCTMYIPLFSQLLCCPVS FGQCGAFRNPGHPPSPNPEFFLG PRRCNPSLGHKALVQEAASDTP GKS\PGKSPPGPIPKIGPP*PGK HKPDAAPSPHRSGSPNPEAS*PE DSAFTPHNNVFTVRPQHHRSLI QRRPCQRQRPNIQRGDIRSLRF GCFARHHPRHHRNIHDRTRTRP RRLTRHSRGLFEDDVRVSTTDP ERRHPHTNTTTTPGPGRVLRKE LNRPRRPIHLRRRRFHVQRAWQ LPVPHRHHHL DHTSHTRRRLR MTDVRLDRPQPQRPARITITAV GGDQRLRLDRITKPRARPN
18120	48488	A	18227	1731	2392	
18121	48489	B	18228	1	1422	
18122	48490	B	18229	298	1464	
18123	48491	B	18230	1	1800	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18124	48492	A	18231	745	1250	HTQNQRSGRSQDNDF*RRRKNNIS ERSAVYR*RQLYIRRPYAERP SLR*RQRP*IPCIRSQHGNRKRI RRRIFI*QSVLRRRHLLP*RKPE ASAERHKTRC*VSERRPRYHRV KYDYH*KSIYSR*AHGAA*PSH RKDRESADLGSDGQNGQDLDC RGGCQPLLLTV
18125	48493	A	18232	1	1661	MAETAVINHKKRKNSPRIVQSN DLTEAAYSLSRDQKRMLYLF DQIRKSDGTLQEHGICEIHVA KYAEIFGLTSAEASKDIRQALKS YAAKEVVLYRPEEDAGDEEGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGLRLRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPLDHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVCAADVLIPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEPPDVFIRDKLMERRNR RTGRTEKARIWEVTDRTVRTWI GEAVAAAAADGVTFSPVTPH TFRHSYAMHMLYAGIPLKVLQ SLMG*YVHCKALWMDCAHV** TKEIHSLHRRHPLQGDKPEL PSPRNSSMPAVYPYWLPQRSIRI FQHI
18126	48494	A	18233	162	446	
18127	48495	B	18234	144	2537	
18128	48496	C	18235	1	873	
18129	48497	A	18236	700	1198	PFFGTDFFPWARWCIQLRHKFW SKGKQRTTKKAPVKPPGPS DHP*PGKHKPDAAAPSPHRS PKTSMTGRQRFHTAQPPH PAPPLAHPAPTVPSTPASTQHPA RRHQVARPDRSSTPLPARIALR VFCPTPSTAPPEHPRQNPAPQ TDSALPGAVRG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18130	48498	A	18237	363	940	LQTVLQGYSNENSMFVKQKGS PPGKPGKKKPCFWGAPKNGAD IPSQSWRPSGNPGTTPPLPKPPSF FPGAPRMGQSQA WGHKGFWF KKGKPTPPGKKARVKKPPGG QSPKAIGPTRGPGKPPKPDMPRA PKPPTDSGHQTQKPS*PADSAFT PHINVSRS DPRTTARSSSADR VN ASEYPTSSEETSGRSSR
18131	48499	A	18238	861	1517	SLRPHLSGFYQARTL*DQRS*A DHE/DISKNCSEA EV*SNNSAGV GTISTS/RSTYDINRADTQVRR A VNNYDIHVMNSNFNGQSEHQV WIGGQF/ILHQICPLTQFQYGAE PDRKE* CQAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPEQDEQKLRFCRHL YGQ QPRSPVEIRLQHVAIAYQTHHA
18132	48500	B	18239	1014	2337	
18133	48501	A	18240	1495	1947	IVTLCFPSYCLHCEAGP/LPCGH PWLWLC*VLGSPG*TQRTGSW AMPGVQASKPACG*KVAPAAR RVPHPLHMLPHSGHSAASGGA SCPLCRG*ATGSDQVLKHA FRK GRSSNCASNGTPPPNADFLGQD VHPARHKLRQKSASEPRKKAR
18134	48502	B	18241	1	2055	
18135	48503	A	18242	1	909	
18136	48504	B	18243	184	395	
18137	48505	A	18244	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFSSVLNCSKCSWQLAAC MGFSF
18138	48506	A	18245	265	890	
18139	48507	B	18246	1	551	
18140	48508	A	18247	407	636	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR */ERDYISIMPKPDGLTAAKNLA EAFEHYNECIRI
18141	48509	A	18248	1	1448	
18142	48510	A	18249	817	930	
18143	48511	B	18250	303	461	
18144	48512	A	18251	612	3359	
18145	48513	A	18252	1	462	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18146	48514	A	18253	268	749	RGGIEYLLL VV FILTRTRFIQAV EHRRNGRRVAEKIVPELITHFM AEIRDLLQRTGVAL/W*HQSAA YLPG*QICALA**IHPGVAAGEY QRRSIQENG GK VQESGQTAS*M RG*MSVESRSGIAARCPESDAQ SGVVHRSRWNQSLPARFGAGR DYREAS
18147	48515	A	18254	1793	2193	TQRIPAAQKQSRCIVDSSAEA LSAALAIGNIELVKPSRTMS/DK AAQEIVNSGKAKRVVSVLGPQ GALGVDS ENCIQVPPPVKSQS TVGAGDSMVGAMTLKLAENA SLEEMVRFGVAAGSAATLNQG TRLC SH
18148	48516	B	18255	1	1557	
18149	48517	A	18256	606	1123	QRDNPSGTDGGRNRAFGAGNI HTRGAAQAVERLVDSFPAQEK DPGESTGRD SL P SSR PQKVAY PVHRNDRR/ERLWFAAPSSPSN ATWGNAEWTLNFSSSDSVTGA SSER*NLLFRLATVRCTLPSSVS ADGAIVAALATHIGEAE LTLES QCGAWRATFSSTCSSLPLNPN
18150	48518	A	18257	110	318	TALKLPLPMSTKVTRCLSNLLK PKFNLPLVQPPKMLPRHLSR *APNTKTSRVLKKN*PIPIPTRR KT
18151	48519	A	18258	2	3062	
18152	48520	A	18259	4435	4954	
18153	48521	A	18260	1	1959	
18154	48522	A	18261	2	715	
18155	48523	A	18262	1	756	MIRRVSVASGNEYMPRPASYIR TAPTVYPSSSPAGTWFAGNAPA SSCGFRDRYLIVCSHQTPHVP KREEVNYETGIYWL RHGYTD YSRNAKQRLQRNNLAPILFTTT VPLGGRQYNN SQHLPQRQSLE RIRHHTQAFTALIPHGAAGQGC GSGDLHYLSLEDVAVSSKATPD GSGVTRKASANLRVTIQIGGFQ LRTC GFGPSCR GCHPALQISRAL AVAAHQQAADNNMEFANYGP FELLQARQLIES
18156	48524	A	18263	1	799	
18157	48525	A	18264	1	270	
18158	48526	A	18265	2	188	LGFFFQRPLGFGQELSKL*EQVL LAPEEVGHLGEHLLFRHASEWP APRVQLLLLVRVQDLQE

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18159	48527	A	18266	2791	3274	SKIFPRHDDLLWRSHRNGDDL RTAGMNAFKQRLTLLGFKITIL TANDYLFADGQ/RSVRKKYPQ AQVSRVAGADLWEELMARAG KE/GTPVFLVGGEPEVLAQTEA KLVRSSSATSIAIWPLLIPCAISS WIRSTAFCCCSWVSEGKPADRS PAPSRTWLRC
18160	48528	A	18267	202	627	
18161	48529	A	18268	1	2390	
18162	48530	A	18269	1081	1911	
18163	48531	A	18270	86	272	
18164	48532	A	18271	674	2808	FILKLRTRRR*RHRLIRPWELFQ TARNAEVMKA/LVRHLWLEVK GVDLGRFPERRYGSDKPDLRNP MELTDVADLLKSVEFAVFAGP ANDPKGRVAALRVPGGASLTR KQIDEYGNFVKIYGAKGLAYIK VNERAKGLEGINSPVAKFLNAE IIEDILDRTA AQDGD MIFFGADN KKIVADAMGALRLKVGKDLGL TDESKWAPLWVIDFPMFEDDG EGGLTAMHHPFTSPKDMTAAE LKAAPENAVATLGDPLESPDDG LHNRISTHGC FYVLCGISTNIGV ESTARNAWELGFNLVIAEDACS AASAEQHNN SINHIYPRIARRG RDPQRVM IYIGLPQW SHPKWV RLGITSLEEYARHFN CVEGNTT LYALPKPEVVL RWREQTDDF RFCFKFPATISHQAALRH CDDL VTEFLTRMSPLAPRIGQYWLQL PATFGPRELPALWHFLDSLPGE FNYGVEVRHPQFFAKGEEEQTL NRGLHQRGVNRVILDSHPVHA ARPHRKLGGTAVWEWEPEGA HWVGDEPGWFSSGDL SKAEY WAQKAADSGDADACALLAQIK ITNPVSLDYPQAKVLAEKAAQA GSKEGEVTLAHILVNTQAGKPD YPKAISLLENASEDLEND SAVD AQMLLGLIYANGVG IKA DDDK ATWYFKRSSAISRTGYSEYWA GMMFLNGEEGFIEKNKQKALH
18165	48533	A	18272	532	2103	
18166	48534	B	18273	1	4401	
18167	48535	A	18274	343	765	
18168	48536	A	18275	447	709	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18169	48537	A	18276	1	1571	MIEVKHLKTLQALRNCGSLAA AAATLHQTQSALSHQFSDLEQR LGFRLFVRKSQPLRFTPQGEILL QLANQVLPQISQALQACNEPQQ TRLRIAIECHSCIQWLTPALENF HKNWPQYSVIFKSGVTFDPHFF FQQGELDPERAFDDFGIKPMAS ASIAQVHSARFNSNGHEVVIKV IRAETLPVIKADLKLIYRLARW DAAFAAGWSPPAANLSCAGST KIHRLMNRTCCRNLPFPFSFGA KPGLYLVEAMVGGYRATTVVVF VSDTVALSKVSGIELLVWGAG KKQGEANAGSEILWTDGLGVM TRGVTDSDGTLQLQHISPERSYI LGTLAMVQLREDMAKRQAAGI IAPRSGRRMHRTQHKPPMTTE MGPRAVLREDTIPFLEALKASG KQRILLTNAHPHNLA VKLEHTG LDAHLDLLLSTHTFGYPKEDQR LWHAVAEATGLKAERTLFIDDS EGDAMKEKPAVEVRLDKWLW AAR/SL*NPRAGP*ND*RR*GAL QRAAHEAEQNRAECHAHSAP
18170	48538	A	18277	2080	2274	RFQVVYFDHEKPSLRHE*FALE EYTGTRN*GCVNLLDR*KPFPF KFMERWLA FSPGGLTLESSRG
18171	48539	B	18278	1	3126	
18172	48540	A	18279	1	341	MLDRLESEILADRVSEESRRWL ASCGLTVEQM QNQM DPVYTPA RKIHL YHCDHRGLPLALISKEG TTEWCAEYD/GMGQPAE*REPA SAAAAYPPAGAAV**GVRPVL QPPPLL
18173	48541	A	18280	945	1484	
18174	48542	A	18281	965	1403	
18175	48543	A	18282	703	1149	
18176	48544	A	18283	161	476	LLPWRSCILRSDPLAAHPVI/LV P*ACIFIARNCYPRPSCDSACKL RRESCG*FG*TRMVSAQATFSIQ ITSA/LPFCEHLPGRSGDFDTG EDNALSGQRPEFRHG
18177	48545	A	18284	1	443	MLSEPALRELATAIAGVRKGEN DIAVENIIGANIFNIVIVLGLPALI TPGEIDPLAYSRDYSVMLLQAG KEVLAIERECLAELDQYINQNF TLACEKMFWCKGKVVMGMG KS/RAILGEKWPRNVCQHRIAN HENRDSIRKICCYHR
18178	48546	A	18285	3	550	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18179	48547	A	18286	2157	2504	LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD** RVPRQNALLLPVCTSGPYHALA TGCGFRRGQMLKTTVLPRHYK LYLGASSGMRYSTPATALMPLP LPHLAER
18180	48548	A	18287	1	621	
18181	48549	A	18288	1	423	
18182	48550	B	18289	1	1551	
18183	48551	A	18290	1171	2757	
18184	48552	A	18291	347	690	
18185	48553	B	18292	1	528	
18186	48554	A	18293	1	1417	
18187	48555	A	18294	292	699	
18188	48556	A	18295	859	1377	
18189	48557	A	18296	1	3036	
18190	48558	A	18297	1	942	
18191	48559	A	18298	1	2124	
18192	48560	A	18299	1955	2797	GGISIDRS GDH*GRGAVYHVAG R*NAGRTAELYFASRPTCG/RW LVAAVQGAATARISTIEMSVW AQL*QMCRGKIRAT/ISLPEATA QVISSGSGATKVEDGLGDLNKP VSNQNLVTGIDTPVYNAPSAGS APFGVLADNMRYPIHLKDKDR LNQTWYQIRIGDRLAYISALDA QPDNGLSVLTYHHILRDEENTR FRHTSTTTSVRAFNNQMAWLR DRGYATLSMVQLEGYVKNKIN LPAVAVVITFDDGLKSVSRYAY PVLKQYGMKATAFIVTTRIKRV
18193	48561	A	18300	1	1191	
18194	48562	A	18301	1	298	MPVVFTVFFLWFP SGLVLYYIV SNLPRYAEYLT VKDADGSVLD QGIALWFP\GPNSFTGEDVLELQ GHGGPVILDLLLIRILTVCGLRI ARPACSPRSL
18195	48563	A	18302	1	1011	
18196	48564	A	18303	1	1845	
18197	48565	A	18304	1	755	MSPVIDKMYV DAYQPFSEEKIS MQEALEKGAQPLREFMLRQTR EADLGLFARLANTGPLQGPEAV PMRILLPAYVTSELKTA FQIGFT IFIPFLIIDLVIASVLMALGMMM VPPATIALPFKLMLFVLVDGWQ LLVALVTGLIISILQAATQINEM TSLFIPKIIAVFIAIIIAGPWWMLNL LLDYVRTLFTNLPYIIGRTMLQ VTSEQ/CAILVKPVLLAVTARA GADLHRADSERTQRTKTGGGF CRYWAG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18198	48566	A	18305	1	1977	
18199	48567	A	18306	1	630	
18200	48568	A	18307	1715	1996	LFRLKTLTGRRKRSNKS WITTCRGFWGTWCAGWSRP*VVQK CRIYTMWR*WQHAQR*VSPAT LNLMLITISRKNPHTRKGAGK HCPFSGPS
18201	48569	A	18308	517	675	
18202	48570	A	18309	480	626	
18203	48571	A	18310	757	1146	
18204	48572	A	18311	318	724	
18205	48573	A	18312	1	1743	
18206	48574	A	18313	1	1197	
18207	48575	A	18314	161	613	LLRQGFIVISAGGKRVEGQIKLV FPAKFEAGFRHGVIANLRLYPF PEEKIGEMATAPLSTSGDCRT* YALIGIQ/PTDGDARGSPRYKPA LALLPACVGS AKSTPHGRTPIPA IYVPSSPT*FRALASDSVAQT*Y CRPASQTRRASPARSL
18208	48576	A	18315	177	425	SRYFSATSTWPLVMSIPVTCFVS PASWLST*QSLPLPLPRSKIQQF CRCSGITRPQP*YPDPKSSSFVD AQGSPDHSNHLGLLLRVHFAR LPECAWGPALW
18209	48577	A	18316	1	576	ADSSKKIADIISVIDGIAFQTNIL ALNAAVEAARAGEQGRGFAVV AGEVRNLASRSAQA AKEIKALI EDSVSRVDTG SVLVESAGETM NNIVNAVTRVTDIMGEIASASD EQSRGIDQVALAVSEMDRVTQ QNASLVQESAAAAA ALEEQAS RLTQAV\PRSVWQPAHSPINRK HHPVLPIATGALMPGCGS
18210	48578	A	18317	121	1819	
18211	48579	A	18318	1	2151	

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18212	48580	A	18319	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHTDKTIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVQR LAHDGHEL VYVPCRSHMDYL LLSYVLYHQGLVPPHIAAGINL NFWPAGPIFRRLGAFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPM LMTYLNQHVPDWRESIDPIEAV RPAWLTPVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNCYLDLMRNVP
18213	48581	A	18320	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLGTINNKGAL PGDSTSGVLRTYERLLTAWML TCPCADEHQRGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQIIAHMALKPT SSIDVPGR TINRFGEEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTIDPRC AQSIGSFSGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTS AQLLRPQAL DLVSRDGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFSPSVSLRRMADE HGTDKTIAQKL\ARVARMHFA RQRLAAVGPRLPARQDLFNKL
18214	48582	B	18321	1	1460	
18215	48583	A	18322	2	234	

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18216	48584	A	18323	282	422	
18217	48585	A	18324	1	1974	
18218	48586	A	18325	154	1944	
18219	48587	A	18326	18	386	KACEAVF*DQGLPLGPKVQQQ WDWFPGPALRHQQSVAHQ GGFRSLWGYSVSGQCRRHSD *SRPGREARRRRSVAG**SHAL HRQTALFGARSDADLPAAAPR YLLYRGLSAAHFRPQAG
18220	48588	A	18327	181	655	KARSPEDQGFPRVHIDGGVW HLDVGSSHPGAIEVGPKGMAVR HLKWYASWV*NVVRQFGPYLP WALEN/WRGAAPSTRGHGVC/G ITVFGKSDGTT/SHDQY*TAPYG SPHPPGRWSLRHRYPAHLTSSA LAFSDARRNAARQPRRWNP LSGYSQVICLP
18221	48589	A	18328	1	658	MDDGTSIAPDGDWAFIGDELK MGIPENDRIREQKQKYLNRKSY LHDVTLRAEPYMYWIAGQVKK RNMPMELVLLPIVESAFDPHAT SGANAAGIWQIIPSTGRNYGLK QTRNYDARRDVVASTTAALNM MQRLNKMFDGDWLLTVAAYN SGEGRVMKAIKTNKARGKSTD FWSLPLPQETKQYVPKMLALS DILKNSKRYGVRLPTTDESRA LARVHLISPVKCARFSRFVFC PAVCRDSGGADERRTSDG CQYAGGVKPESVMGAEIVEG FHSISVTSAWSRGD NSPAPMAFSRLWLT VFSMVFKRRET VRSLSAVGAGEL RGAPSTRGPEW THHWCSGCHANG TARSVVPPD MPNSEVKRRS ADGSVGS P*RLITA AKVGS* RQLKRT KRVGN PRTSG RYRCRRK RSSTC LKCW H*VIF SKT ASVMAY VCQR PMKAV LWRVC
18222	48590	A	18329	642	1343	LCLHLPLPTRFPRLQL*EEGGPV QPAAMPQWRTLPGPGPRPALPL PRRLRGSSLRARPGRRLRGRPLR* RRHVCGGRRRAPLLLRAGLR RRLPRARGPVRRAPLCSRRPLLR PLLRPRLRLRSRLHGS AV*VPSAPRRRKRLARG PAGPQARGPSALPFASG SGTARGRGRRCALAG PRAPPWPLPGCWVSLAG WDPGAVSPRTPGCTQ QPKDAGGFRGWSEAGV HDAQTV
18223	48591	A	18330	1	810	

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18224	48592	A	18331	236	717	ALPVGAAFSSTTGFGSGFGAGG ASTFGLGGSTGFGFGGATGAGS GSNSVLLAAIVAGSSDGAASP ARTSSAAPSGGCD/QERRIVDFK RNKDGIPAVVERLEYDPNRSAN IALVLYKDGERRYILAPKGLKA GDQIQSGVDAAIKPGNTRLSYG QHREAWR
18225	48593	A	18332	49	291	
18226	48594	A	18333	75	839	
18227	48595	A	18334	1	579	
18228	48596	A	18335	223	563	
18229	48597	A	18336	1	1219	
18230	48598	A	18337	157	864	RGNRQLQQFPRHWSNRDLGL LLQIQLQILGGHTVERHLVVQI ALVVNGHPGHADGMWILCIRV LLSLQQNGFRRVPSIGHWTGH* AATDQARLMLGCHINAQFAGI QRLEDLGTQLLHTTNGLVEVE ARRQILQLGLPLFLLNQTDTVW AIPGVHVLRFDVVGRDPS/EVLI DPRQNAGLLWKVFATFRPEPTR PAVCCPRGGQSGDDRRAGCAC NHVELVARHRRSCPWHSRHH
18231	48599	A	18338	1	219	
18232	48600	A	18339	1	2226	
18233	48601	A	18340	46	228	
18234	48602	A	18341	382	1431	
18235	48603	B	18342	1	2400	
18236	48604	B	18343	1	912	
18237	48605	A	18344	2267	2539	
18238	48606	B	18345	1797	3411	
18239	48607	A	18346	1842	2560	
18240	48608	A	18347	1	1284	
18241	48609	A	18348	1	792	
18242	48610	A	18349	1	978	
18243	48611	A	18350	757	1011	LFGRFSNGFLIVVCQRLRQAVV NEQFLPETATLTHRGELLFHSP A*LPGVFRYLAQM*RHAVIQVF RATGVPEPERCQRRPHER
18244	48612	A	18351	148	679	RMSDDKFDAIVVGAGVAGSVA ALVMARAGLDVLVIERGDSAG CKNMTVGGRLYAHTLEAIPGFA VSAPVERKV TREKISFLTEESAV TLDFHREQPDVPQHASYTVLRN RLDPWLMEQAEQAGAQPFGV RVDALVREGNKVTGVQAGDDI LEANVVILADGVNSMLGRSLG MVPAS
18245	48613	A	18352	1168	2241	
18246	48614	A	18353	1	1344	

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18247	48615	A	18354	440	886	
18248	48616	A	18355	1	2876	MAGVPGFEPGNAGIKNRCLTA WRYPIRTTSLSGEWCGRRDLNSQ EATLQQPLLQAIDLKKHYPVKK GMFAPERLVKALDGVSFNLER GKTLAVVGESGCGVLACTLFA WNRNYFVLLFVGVLSSFGSTA NPQMFALAREHADKTGREAV MFSSFLRAQVSLAWVIGPPLAY ALAMGFSFTVMYLSAAVAFIV CGVMVWLFPSMRKELPLATG TIEAPRRNRDITLLLFVICTLM WGSNSLYIINMPLFIINELH
18249	48617	A	18356	606	726	
18250	48618	A	18357	1271	1726	
18251	48619	B	18358	1	1633	
18252	48620	A	18359	1	407	
18253	48621	A	18360	427	2307	
18254	48622	A	18361	120	694	
18255	48623	A	18362	804	1087	KRQHLCTHSGAIRLRIAGVGSW KG/GRPNWRKMAVRWRVPASA VVGWLRWRWHCWVPAMPSAE SPRIRCGAGCCICRLPLFRCGCC TPARLTISH
18256	48624	A	18363	216	436	
18257	48625	A	18364	476	577	FRRWYWGCCSTTRLSHCLTR* M*CMRWSLAVCC
18258	48626	A	18365	1159	3744	
18259	48627	B	18366	169	743	
18260	48628	A	18367	2811	3513	SLPRGWFQPEYGNLEIMEKTYN PQDIEQPLYEHLGFPRVGLRRE LKKAQESYWAGNSTREELLAV GRELRAHWDQQKQAGIDLLP VGDFAWYDHVLTSLLLGNVP ARHQNKDGSVDITLFRIGRGR APTGEPAAAAEMTKWFNTNYH YMPPEFVKGQQFKLTWTQLLD EVDEALALGHKVKPVLAPGT WLWLKVKSEQFYRLSLLNDI LAGYQQGLAETGVGPDDIVTA

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18261	48629	A	18368	1	2810	MKQTVYIASPESQQIHVWNLN HEGALTLTQVVDVPGVQVQPMV VSPDKRYLYVGVRPEFRVLAY RIAPDDGALTFAAESALPGSPT HISTDHQQGFVFGSYNAGNV VTRLEDGLPVGVVHVVDGLDR LARQLIKNLATLKAGNARVVN SNAMSFLAQKGTPHNIVFVDP FRRGLLEETINLLEDNGWLADE ALIYVESEVENGLPTVPANWSL HREKVAAFAGAEPYHYLNHTL GFPRVGLRRELKKAQDSYW
18262	48630	A	18369	2279	2563	MNFGASLNSPTPRSYLSLGGEK KAPVWEHTLGVPSRRPAAGKL KKAPERYPWGGEHPPVKKWLG G*ARKCRPRPWETL*KSHLRRR PSLGPWAGGL
18263	48631	A	18370	481	1020	
18264	48632	A	18371	1	998	MNENFGTQICVNNRLSFTDCSG YVTRYDHDHFRGQVTAHVHREEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNAAGDLTTVIAPDGS RNGTQYDAWGKAICTTQGGT RSMEYDAAGRVIRLTSENGSHT TFRYDVLDRLIQETGFDGRTQR YHHDLTGKLIRSEDEGLVTHW HYDEADRLTHRTVNGETAERW QYDERGWLTDISHISERHRVT HYGYDSKGRASEHLTVHHPQ TNELLWQHETRLAYKRTGLAN RCIPDTCPPVNAYLGTACCQHE ICDTPWLSYRDPFTGKSWLSGR YELHKRIYGITAKERKDVDVW HPDVRRFFELYDENNELRGSFY LDLYARENKRGGAWMDDCVGQ MRKADGSLQKPVAYLTCNFR PVNGKPAFTHDEVITLFHEFG HGLHHMLTRIETAGVSGISGVP WDAVELPSQFMENWCWEPEA LAFISGHYETGEPLPKELDKM LAAKNYQAALFILRQLEFLFD FRLHAEFRPDQGAKILETLAEIK KLVAVVPSPSWGRFPHAFSHIF AGGYAAGYYSYLWADVLAAD AFSRFEEEGIFNRETGQSFLDNI LSRGGSEEPMDLFRFRGREPQ L*HTVVELPRPFHREILAFRPL*I TQAYLRHHR*RA*RC*CLASGC

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18265	48633	A	18372	409	533	TGNDAPVPAQSAQYRYLQ*SV RNFCRLSFRLGINLSLPYPHVDD VIPLMAEGKILPYLDIPLQHASP RILKLMKRPG
18266	48634	A	18373	222	659	SAGSVKTQRSGANKQRRTRSRL ASFC/ETLSSVSFPAPWKISFLIP VGLPISNNYVCSLNPVWCAMR LNMPPMSKSICWQKHWKSTVS RWITTRHSFVQTLISTACWRRSP VTQSSWRSTFACSTGLLSHAPP LPIRHCTNITNVWY
18267	48635	B	18374	1	1527	
18268	48636	A	18375	1	1005	
18269	48637	A	18376	2	314	WVSYCSGSTTL/LLRALQECQR QQGPWASAGDPGEGAGERERL PQALASPLQVKPARQ/RDPGL RTPDPGDTASPALNGHIFALPA GTAGDCFRPRPRGRKNSGT
18270	48638	A	18377	3	576	
18271	48639	A	18378	189	563	QGRGSSRPGCGHLDPGGEEWL PQRPGLQHLC/PSAYILIFAGVL VMVTGFLGFGAILWERKGCLS TTTGDRFWKDRQPWTCR/WQT SHRNQSGAGGQWDRFRSHQGH RDHEGRTSNWGSGFPREVA
18272	48640	A	18379	1	531	
18273	48641	A	18380	1385	1673	AASTDRAAETG**KTR/HRWFL SVKLRTSTPTAVSPKK*KRLAW TRCMTPPSKR*KKRVTTPSSPT SLTSTLPGATVATSPVMPRVWN CSTAVCRS
18274	48642	A	18381	1	921	
18275	48643	A	18382	1	2115	
18276	48644	A	18383	2	149	ARRNESRRGGR*HPCRPT*GT VNQRPAGFRRFAGPFRYSKGKPG RERL
18277	48645	A	18384	482	1655	
18278	48646	A	18385	1	776	MENACVLLMGVLSTFLVSWLG KDAMAGVGLADNFMVMIMAF FAAIDLGTTPGAFSLCKRDRR QARVATRQSLVIMTFLPVLLAP LIHHFGEQIIDFVAGDATTEVKA LALTYLELTVLSYPAAAITLIGS GALRGAGNTKIPLLINGQVAML MQAPYYFQEAQIEAAIAAMDV APEYADIRQVESSTAVLYLFSE RFMTYGKAYGLCEWFEGSRLSI AHIPVTDNDNETQYHFRQSCQ HC/DRCSVHRRLLPDGGVVA

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18279	48647	A	18386	1017	9228	FGRCAVCQ*RGRDGQRRDEA GDGRLRLARL*\ALYQTITHDLR YRHKNL YRRKLASQRVTEHVN RAGLRYSYQYEKDCITITDSLA HNKVLHTQGEAGLKRVVKKK HADGSVTQSQFDAVGRLLRAQT DAAGRTTEYSPDVVTGLITRITT PDGRASAFYYNHHNQLTSATG PDGLELRREYDELGRLIQETAP DGDITRYRYDNPHSDLPCATED ATGSRKTM TWSRYGQLLSFTD CSGYVTRYDHDRFGQMTAV
18280	48648	B	18387	1	1431	
18281	48649	A	18388	575	835	RQKPERYLTA FISTTLPLRWMT LVRVMRPIVTCRRSR SILLRSIS HLCKWRVSTKSPVILWTLSN* RLFWKSWR*NGLQSKYQDG
18282	48650	A	18389	1207	2465	ASTAQHQQLSPAKEETTGWRI FHPSDPWALGRSQGGAGLIQPP EVQKGSVRYRARFALLGPAMV AHRHTGRPEIRYRYDS DGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKRVVK KEH\ADGSVTQSQFDAVGRLLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLELRREYDELGRLIQET APDGDITRYRYDNPHSDLPCA TEDATGSRKTM TWSRYGQLLS FTDCSGYVTRYDHDRFGQMTA VHREEGLSQYRAYDSRGQLIGV KDTQGHETRFEYNIAGDLGGI APEGG/RNG/TQYDAWGRRRTT /QGGDADDRSAGGTRARKGHT SFRSVGDRTVSRHGYPGRNLR RMVRSSVPLYRLTASIAPVPQE YRFPPHQSEEVY
18283	48651	B	18390	1	2604	
18284	48652	A	18391	1	2640	
18285	48653	A	18392	1	549	
18286	48654	A	18393	290	389	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSV
18287	48655	A	18394	1095	1268	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSVAENARSACRC RRSAHAGRFLQTAS
18288	48656	A	18395	1056	2178	
18289	48657	A	18396	1	669	
18290	48658	A	18397	1628	1856	
18291	48659	A	18398	227	668	
18292	48660	A	18399	1	3186	
18293	48661	A	18400	291	631	

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18294	48662	A	18401	1	1437	
18295	48663	A	18402	345	727	
18296	48664	A	18403	870	1043	
18297	48665	A	18404	1	2175	
18298	48666	A	18405	1	1332	
18299	48667	A	18406	1	1566	
18300	48668	B	18407	1	921	
18301	48669	B	18408	1	2487	
18302	48670	B	18409	1	2919	
18303	48671	B	18410	1	2214	
18304	48672	A	18411	1714	1979	RLAWRLAGRWAGSWRTSTIP PAAACSRRLRCSPPSKFCSAWCR WCSTRACSSCCRSTSSPMPAWR PSAGS*LTARRRAPPSPALVLR
18305	48673	A	18412	1201	2118	PSRQADKENRPHPGRGYPARM MSGLTGTITTSTVGWCTTRGHN MKSRWSKVAFITTRWGRRVAK RVWRRERDLTGWMSLSRK PQV TWYGWDGDRLLTIQNDRTRIQ TIYQPGSFTPLIRIPVLGGGDDT MDCLRTSIRLNAASVTCA YRRD QISMPGSRKEVVNAREEGVEFQ FNFQPQYIACDEDGRLTAVGLI RTAMGEPGPDGRRRPPPVAGSE FELPADVLIMAFGFQAHAMPW LQGGSIKLDKWGLIQTDVG Y LPTQTHLKKVFAGGDAVHGAD LVVTAMAAGRQAARDMLTLF DTK*PGTAGTATG*PQYRTTEP ASRRFISRGASRHSSEGS/SVLG GGDTT/MGLFADFHP PQCRQRD LAPYRRDQISMPGSRKEVVNAR EEGVEFQFNFQPQYIACDEDGR LTAVGLIRTAMGEPGPDGRRRP PPVAGSEFELPADVLIMAFGFQ AHAMPWLQGGSIKLDKWGLIQ TGDVG YLPTQTHLKKVFAGGD AVHGADLVVTAMAAGRQAAR DMLTLFDTKAS
18306	48674	B	18413	1615	1656	
18307	48675	A	18414	1287	5056	
18308	48676	A	18415	1	271	
18309	48677	A	18416	1	588	
18310	48678	A	18417	2150	2332	
18311	48679	A	18418	1	238	LEELGVIGAVLVGFSL*VLWAP LQLPKAGGRVKVAGIQLGEVEF WKVS\KSCSSPDPPPGVMAAKIS ISQALQPPQSTR
18312	48680	B	18419	1	2721	

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18313	48681	A	18420	712	1031	PVMRQRGVFRSVILIKIRSARCC QMIQPRVISHAMYSLSPPFALR RSTKSPKRFSMNNS*ASRSSGST SRDTSAIS*ARRSISRTRLLIRS LISLISSLLVNVV
18314	48682	A	18421	1	1779	
18315	48683	A	18422	693	921	
18316	48684	A	18423	758	1183	ALTAASRSECAVIMMTGRITSCC DIVEKWIPARCCQMIQPRVISH AMYSLSPPFALRRSTKSPKRFS MNNS*ASRSSGSTSRDTSAIS*A RRSISRTRSLIGWRSWYTLI NSIPTNRAKSMKPEPSPNACSK VKRCC
18317	48685	B	18424	1	708	
18318	48686	A	18425	1	2436	
18319	48687	A	18426	1382	1813	
18320	48688	A	18427	900	1028	AGYAAPGRTRDRSSPSG*GYRY SGCYQICRQPGRLGSRKSPV
18321	48689	A	18428	1	881	MTPSRFAKKNGSLVKRCPMGI DAEVTMIKPIAARPKVSHSKVR SYMIRLSVSFSREPITQPFSAVEI QTRIRYGVSGFFLRRVDTEHHP DRHAARALQYHITGSNRCDAIN AVQFDTAGGECTNRRMAEDHG RNVAVIQMLIRLVIKQAFREVP SELWTNRKQACPFDFDCGENS AIAANNYDWFGNMNVLTFRLD IGKHFSVNQMINKEAVKQRLN REDQGGSFTEFSYNLLQGYDFA CLNKQYGVVLQIGGSDQWGN TSGIDL/NPSSASESGVWPDRSA DH*SRWHQIW
18322	48690	A	18429	1	3270	
18323	48691	A	18430	1	374	MKTCWQILEIESTTQIDIIRQAY LARLPLCHPETDPQGFKALRQA YEEALRLAVNPVEEADDEEKD AAAEHEILRAFRT/FTGFRK*SFS AFRLAEIYSAIKYLEHGGCRSIT LAAVCNRHRSAT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18324	48692	A	18431	63	1272	LRRSCNAVYCW*CVATCPS\GE EDGIVLIDQDKCRGWRCITGC PYKKIYFNWKS GKSEKCFYCYP RIEAGQPTVCSETCVGRIRYLG VLLYDADAIERAASTENEKDL YQRQLDVFLDPNDPKVIEQA IKDGIPLSVIEAAQQSPVYK MAMEWKLALPLHPEYRTL PMVWYVPPLSPIQSAADAGEL GSNGILPDVESLRIPVQY LANLLTAGDTKPVLRALKRML AMRHYQRAETVDGKVDTRA LEEVGLTEAQAQEMYRYLA IANYEDRFVVPSSHREL AREAFPEKNGCGFTFGD GCHGSDTKFNLFSRRIDA IDHQEMFEAIAASKNLPK EDAHALGIFLRDLTTMD PLDAQAYSELFDRGRAT SLLLFEHVHGESRDRGQA MVDLLAQYEQHGLQ
18325	48693	A	18432	2	859	WPLRRSPYSIINGSGKSAASGSV MQVAQFN SHYQYDPKFERGM YLYEHRRCFNNIIDYCNSLCYH AWLVAHKDDIERNYRGPLVQV VGWCD AIFGAEELGISRAQFDQ FLRMMQGGAAQFGGGYQQQTG GGGRPGGHFFEKRRLRMVDR LNARFTGGVLVSFKGPLLEGFG PWQGLSPWVIGPDLGLPG/CLG AWGAVSVCHCPWVCKTGSPFR WVPHRRFHPPPG*KFPENWMG FCSSRTCGLFSHPHSPTMAFKN FELGHGT PPRGTRNRPTMSSNT YRPHRFQ
18326	48694	A	18433	479	601	CWRPLPAEKRW WYLAANWW RLAARFVFPMLCVRQ*PSSMIW TTPDADIAIGTWRSCCAVLRGR KMPVSSITMRRRCY*CWRPLPA EKRW WYLAANWWRLAARFV FPMLCVRQAAPYTK
18327	48695	A	18434	69	194	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNRSARV
18328	48696	A	18435	173	298	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNRSARV
18329	48697	A	18436	1	1734	

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18330	48698	A	18437	851	2202	RQKRLIFCCVKGKNWPP*WRW LNEKLPCSLMLLPTLPPSVLGIR LQNQLQRQFVRQGGVWMPGD EVKKVTCKNGVVNEIWTRNHA DIPLRPRFAVLASGSFFSGGLVA ERNGIREPILGLDVLQTATRGE WYKGDFFAQPWQQFGVTTDE TYARHRQGKPLKTCLPSVRCW ADLIPSPRDAAAVFVPSVLYMP LNRLPNAQEANNE
18331	48699	B	18438	1	5301	
18332	48700	A	18439	710	889	
18333	48701	A	18440	1622	2615	
18334	48702	A	18441	1	1309	
18335	48703	A	18442	1	266	PRQCGFMKKRLENGDDYFAVN PRGRCLHCCWMTVLC*RKRS YAVSCRQRPRPPVLAPVNSISRS VSPYTPPEYKPTVRAQLEKNCN M
18336	48704	A	18443	267	395	
18337	48705	A	18444	1	3807	
18338	48706	A	18445	1	2193	
18339	48707	A	18446	1278	1846	SCRSAPRNRHQIPGTYSRLPRH TTPPGYDHNKRNPNLYISTRQK RDAFFAVQYHSLLYRQTLLPN DHNQSVDR*FVFRL*NQNGYNS GRHLYWRYHSYNWL*LCHR HPVYYRLYYIFLQPVMQMPQ CPSPLMPECSFSFSLILINA/SNI QRESPVENRKVFNLRLLLKIYYR LIIFLKCGNLLNL
18340	48708	A	18447	1	2106	
18341	48709	A	18448	881	1401	
18342	48710	A	18449	1	233	MMGFDGTVQYMASLGAPMPM LAA/MYCGSYGSARRDINRAW LFHPSAGGAVYFLHAGYGGDW SPLLGYDRRCGWAKYD
18343	48711	A	18450	1	1960	
18344	48712	A	18451	563	928	FSAIKSSPKAQUALWHVLHY*AV N*TNIFKTEKPIFNRGKRFRPTP TRQLRECWIVWGSASCQLTKQ AVVARWTIILMRRRKGWHGRA IILMPGGPRLKQVPRQFCKPPA AAARLSKSMGRC
18345	48713	A	18452	1	828	

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18346	48714	A	18453	1	1327	MMQKPATVDEEESPRETHRYS VRRRGELIVEAGGRAENTVVT GAGWLKVATGGIAKCTQYGN NGTLSVSDGAIATDIVQSEGGAI SLSTLATVNGRHPEGEFSVDKG YACGLLLENGGNLRVLEGHRA EKIILDQEGGLLVNGTTSVVV DEGGELLVYPGGEASNCEINQG GVFMLAGKASDTLLAGGTMN NLGGEDSDTIVENGSIYRLGTD GLQLYSSGKTQNLSNVGGRA EVHAGEVTGDIHVEITDASRQT LCNALKLQPDEGGSSRVIPTCK ASRLRIDANFKRFVDEEVLPGT GLDAAAFWRNFDEIVHDLAPE NRQLLAERDRIQAALDEWHRS NPGPVKDKAAYKSFLRELGYL VPQPERVTVETTGIDSEITSQAG PQLVVPAMNARYALNAANAR WGSLYDALYGSDIIP\QEGAMV SGYDPQREAMECP
18347	48715	B	18454	71	4995	
18348	48716	A	18455	1	3572	MARKRKSNNNSKIGHGAISRIG RPNPFEPNRYAQKYLTLAL MGGAAFFVLKGCSDSDVDND GDGTFYATVQDCIDDGNNADI CARGWNNAKTAFYADVPKNM TQQNCQSKYENCYDDNVEQS WIPVVSGFLLSRVIRKDRDEPFV YNSGGSSFASRPVWVPSSIVIMS YGLASYVIAVAFLERDRIQAAL DEWHRSNPGPVKDKAAYKSFL RELGYLVPQPERVTVETTGIDS EITSQAGPQLVVPAMNAR
18349	48717	A	18456	485	1999	
18350	48718	A	18457	44	270	
18351	48719	A	18458	1	2223	
18352	48720	A	18459	290	756	
18353	48721	A	18460	8	314	
18354	48722	A	18461	2	686	
18355	48723	A	18462	1	732	
18356	48724	A	18463	1	780	
18357	48725	A	18464	101	435	
18358	48726	A	18465	805	993	
18359	48727	A	18466	452	2180	
18360	48728	A	18467	691	1443	
18361	48729	A	18468	1	320	DPRDCRLKVGKEMFTLFGPQF VRELQQRGFDIFDLKFHDIPNT AAHAAAAADLGWVMNVH ASGGARMMTAAREALVPFRPD APLLIAPV*RSIKASDLVVPL

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18362	48730	A	18469	632	796	
18363	48731	A	18470	129	425	TDIITRQNGTGANIDAEIATKA STGLFVYQPRFARCPVMSSGY HTATRGSSGTRTVRARVCHTA AGVYGSSKQTQF*NRFCQRKCR RYPDGCRR
18364	48732	A	18471	1	1062	
18365	48733	A	18472	1	996	
18366	48734	A	18473	1	1004	MLRVYHSNRLDVLEALMEFIV ERERLDDPFEPEMILVQSTGMA QWLQMTLSQKFGIAANIDFLP ASFIWDMFVRVLPEIPKESAFN KQSMWKLMTLLPQLLEREDF TLLRHYLTDDSDKRKLFLSSK AADLFDHVS GASVSSKVEQLR AQLNERILVLDGGMGTMIQSY RLNEADFRGERFADWPCDLKG NNDLLVLSKPEVIAAIHNAYFE AGADIETNTFNSTTIAMADYQ MESLSAEINFAAAKLARACADE WTARTPEKPRYVAGVLGPTNR TASISPDVNDPAFRNITFDGLVA AYRESTKALVAGIVLMPAIPAL WEAEPGGCA
18367	48735	A	18474	606	846	
18368	48736	A	18475	3042	3933	GPHPPAPGGPA\CHYDVHQPYL RQRTEDRRTRHYLAQSFAQYSL RQWAFHFLDNITPDIIQVIAH TRRTGGFTITASEAAIEMLLCFK RDFVALQHFLNQIDAPARAVQF IAQKLIGWACCEAARKNQLP NTTKRSLMSILYEERLDGALP DVDRTSVLMALREHVPGLEILP TDEEIIIPYQCDGLSAYRTRPLL VLPKQMEQVTAILAVCHRLRV PVMVFPGLRLSREAFLLTAIEFG TQELRRPAQLRLQVYRLLSTAG RHHPAQNSPIRVLEVDIDLLGG TQELWGWKETH
18369	48737	A	18476	869	1639	ICSRCKSTRTSPTRCRKAIVIL VCFVIRELLVVAPELTHIGLPEG NWITVSKGMLAKSPVDSNSTQ LKEAEEERLKAAQYGLQLVES QNELQNQLDKCRNEMMTMTTE MQLRNKKRRRELGNLIKFRSG AESLPDAVVLTTTEGGIFWCNG LAQQILGLRWPEDNGQNILNLL RYP/EVYAISENA*FFSPAQSGA QHRAASGNSRHALYPQTVADG GA*CHANASTGRGAA*LFCQRE P*VTYAI DRV TGLPGDDE

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18370	48738	A	18477	388	2356	
18371	48739	A	18478	137	318	GGQLSSWAMDFCHL/PAFWNS MTWHLQRLWGACGYFWHAQ WERLLTTFEGNEWILIFIGGIL
18372	48740	A	18479	923	1149	
18373	48741	A	18480	1	373	
18374	48742	A	18481	168	360	
18375	48743	A	18482	1	147	
18376	48744	A	18483	161	440	
18377	48745	A	18484	277	2172	
18378	48746	A	18485	164	406	LFRREGSYDRYLLMDDYCRRK DDSYFDRYRDSFDGRGPPGPES QSRAGKVAETVYSYY**NTL QKREETNNQYPHLKKG
18379	48747	A	18486	405	999	
18380	48748	A	18487	64	288	
18381	48749	A	18488	159	550	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGNGRYGLA IGANGSGKSTFMKILGGDLEPT LGNGSLDPNERIGKLRQ\DQFAF EEFTVLDTVIMGHKELWEVKQ ERDRIYALPEMSEEDGYKVAD
18382	48750	A	18489	3	481	
18383	48751	A	18490	2	233	
18384	48752	A	18491	2	3026	SVPTIIFFLPVLRFWRPGIQQA KKCHLFATGTQSRNTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRTARFRRT WRLLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMFTEDNG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGI
18385	48753	A	18492	2714	3079	RLIGLRMVREFVGLIRRASVAS GSWHCCRMRRKRLIRPKPSILQ SMLWSPSTRRMFFTLVPIFSIEE LPFTFRSLMMVTLSPASRLPLA SLTISSSLSCAGSASFHS*AHSG QMYMPLSS
18386	48754	A	18493	1	888	
18387	48755	A	18494	1778	2025	
18388	48756	A	18495	1	1425	
18389	48757	A	18496	3	96	FVGRIRRLRRIRRY*FTPLTD*LS CAHQVP
18390	48758	A	18497	420	955	

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18391	48759	A	18498	533	1006	RPSIFACVSP*RINHSRIMPQTN AKNAKPNAQVMRGVISRRRR AMLFNSAITRTPTTSFTMAITS ASSSPPAVKVSICPHGINTPTNIC NTTSCFRLIPHFMTPKPLPLYSE SGPSCSSCSASARSNGSLPISIKV ANAQAQSASTSGMLWLSGQ
18392	48760	A	18499	3	418	EWHYLSADRRQCAFQGVSRKT ATVCHHPVDYYAGSLYRLYFT DRLRLARLAGHAAES/GTPASHA VFQLVLE*L*SPLFSPVSTSGGR TANSTVLIMKSCMSGAVRQPT NWQAILMFLIFVVFTLGITYWA SNAYVVLG
18393	48761	C	18500	63	500	
18394	48762	A	18501	1	1107	
18395	48763	A	18502	1	153	
18396	48764	A	18503	88	510	
18397	48765	A	18504	204	654	
18398	48766	A	18505	241	771	
18399	48767	A	18506	1655	1909	
18400	48768	A	18507	2	48	
18401	48769	A	18508	1	585	
18402	48770	A	18509	1	723	LQPPGRRWAAPAVSGLSRQV\ RCFSTSVVRPFA\KLVGPS\VVQV SVIEGRYATAL\YYAASRQNK EQVEKG\LLRVAQILEGTPKWA ASVLESPMLKAFPLKVKKPKM TITAKVGGSLPLTYQTLINEFALL ENGSD*GNYPRESFSGFLFTMD GVFHSRERV\CTV\TSGIFL*EG RPQFSEFKNCSSRGFLRSRAKFL KLGAK\TDPS\LGGMIVRIGEK YVDMSVKT\IQKLG\RAMREI
18403	48771	A	18510	400	894	
18404	48772	A	18511	1	1023	
18405	48773	A	18512	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEAI\LVSLLFVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
18406	48774	A	18513	141	563	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHTTTTIA\EPDPG VS\GLP\DGRMETPTPHP*LTMV VIAGV\IACLWPFVLSLPSSFVM VALTLLTGHKGARTTPNEAKG\ TEFAES\ADAALQG\DPAL\QDA GDSSRK\EYFI

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18407	48775	A	18514	182	935	QAFELHPCRPKFSTLPSPAWPP RHTDLRKRGRRTAQ*YAGNES HPPSLPRYLRRSRH/SRMQAPSS TCSYSHTSLQCSPAPQNH/AQHP *PALEELACG/SPSVSSPYLVLS CQEQPHHCCPPSTPRPSW/CPSS GDAICYSPGQ/CPRSRGPLP\EDS SDSPPAEQVLPPSSGSHNTLYLR CKRFSAFILNCEPPSK\C*KPGHR CRS*AGILTLLPPG/ERGP/GDGP CSTGRQSASKTPPPSPHTGHS LWSEEK
18408	48776	A	18515	48	676	KARLTWQQTREESLCRETPPYK TIRSRETYSLPREQHGKDLPP*F NYLPSPSHNTICPG*QDQGRFT Q\PLYLRCKRFSAFILNCEPPSK\ C*KPGHRCRS*AGILTLLPPGGE AQHFVKHPSIPL/REGGEVGIK PKKTSPGTELLMQP/CHQPSPT CQPAPRKS NR/LGCLSPLMKHS TLGYLLWLQKAIWLKGFGTSG W*M*GRFHL
18409	48777	A	18516	86	92	TANAALHQSPRRTCQPAPRKS NPQAA*ALNC
18410	48778	B	18517	1	2031	
18411	48779	A	18518	98	367	DLFLYLSWQHCHPYSHCHPNQ KPGRFLMKLSS\ETVTIELKNGT TRSHGT\IHQVWDVQ\MNTHL KAVKMTLKNREPVL\ETLSIR GNNIR\YFILPD/SVYPLDTLLVD VDPKVKSKKREAVAGRGRRRG RG/TRDVARGR*RGNNIR
18412	48780	A	18519	1	310	
18413	48781	A	18520	37	136	RRRPSSSWALPPSRGPSST*AER GAQHQQPVPA
18414	48782	A	18521	3	305	FFTLCLQWGLFSCESPICSGVGR YWA*VCLCFLQIEAIELPMDPK LNKRRGFVFITFKEEEPVKKVL EKKFHTVSGSKVRCSQLCLASC AAGELALRGMG
18415	48783	B	18522	249	367	
18416	48784	A	18523	1	1008	
18417	48785	B	18524	17	835	

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18418	48786	A	18525	2	1188	SLIKLNSPPPRGGGTARYGAWL LVGGFPCGGGQGGGDTVGAAP WADWGEASAAASFDVLAEC ARLSSLRVGDEAGSRGVIWRAR SPPRLGLALSEAGVEE\QPMETT GASENGHEAVPE\ASR\GRGCW TPLRRGLEARPRRPRAGIRTAPR D\QRINASKNEEDAGKMFVGGGL S\WDTSKKDLKDYFTKFGVE\V DCTIKMDPNT\GRSRGFGFILFK DASSV*K\VLDQKEHRLDGRVI DP\KKAMA\MKKAPVKKIFVGG LNPESPTEEKIRESFGFGEIEAI ELPMDPKLNKRRGFVFITFKEE EPVKKVLEKKFHTVSG\SKCEIK VAQPKEVYQQQYQYGGGRGN RNRGNRGQ/GGGGGGG*GQGS TNYG\KTQ\RRGGHQ\NNYKPIL EAGRQERPT
18419	48787	A	18526	3	784	
18420	48788	A	18527	3	1990	PAMNGLSLSELCLFCCPPCPG RIAAKLAFLPPEATYSLVPEPEP GPGGAGAAPLGTLRASSGAPG RWKLHLTERADFQYSQREARST IEVFPTKSARGNRVSCMYVRCV PGARYTVLFSHGNAVDLGQMS SFYIGLGSRLHCNIFTYDSSGYG ASSGRPSEENLYADIDATWQAL RTR*GRPLVGRVRARWRPRLTL LRRRQVRHQPGQHPSCTGRSIG HGAHRGTWPRATSVPRWCCTR RSTSGMRVAFPDQTQERPTASTP FPYIRERCPRLTSPRAHHPTGTK DEVIDFLEAGWRSTRRCHQGG GAAVGGGGPGHNDIELYSQYL ERLASLSFSQELPSQRA
18421	48789	A	18528	82	406	

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18422	48790	A	18529	2	1474	ARASGSGSSSGQGKMGQS\QRG GHGSGGGKKDDKDKKKKYEP VPTRVGKKKKKTGPDAAASK\L PLVTPHTQCRLKLLKLERIKDY LLME\EEFIRNQE QMKPLEEKQ EEE\RSKVDDLKGGPRLSVGNL GKRFI\DDNHA\IVSTP\VGSEHY\ VSIL\SFVDKDLLEPGCSVLLNH KVHAVIGVLMGDTDPLVTV\M KVEKAPQETYADIGG\LDNQ\Q EIKESVELPLTHPEYYEEMGIKP PKG\ILLVPPG\TGKTFLPKAV ANQ\TSATFLRGGGSELIQKNLG DGPKT\LSRELFR\VSEELAPSLR FIDRILPPLGTKRY\DSNSGGE\R EFQRTM\LELLN\QL\DGFD\S\RG D\VKVIMPTNR\IETLDPALIRPR PAFDRKYEFP/LCPDEK\TKKRIF QISHKS/RMTLADVGTPTTLI MA\KDDL\SGA*PSKA\CT\EAGL MAL/RENNRMKVPN\EDFKKS\ KENVLYKKQEGTPEGVVSLMN PWL\IRK\MVGRFLNP
18423	48791	A	18530	2	274	WQDLICRMAASVKEQSTKPIPL PQSTPG/ESHSLSTSGKSEVRDL FVAERQFAKEQHTDGTLEKVG EDYQIAIPDSHLPVSEERWALD ALRN
18424	48792	A	18531	3	844	

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18425	48793	A	18532	261	2814	VRFRNLIRIYCNKICAVSHCPP KVFKLNSLFFLHRFDSVAFGES QSEDEQFENDLETDPPNWQQL VSREVLLGLKPCEIKRQEVINEL FYTERAHVRTLKVLDQVFYQR VSREGILSPSELRKIFSILEDILQ LHIGLNEQMKAVRKRNETSVID QIGEDLLTWFSGPGEELKHAA ATFCSNQPFALMIKSRQKKDS RFQTFVQDAESNPLCRRLQLKD IIPQMQRLTKYPLLLDNIKYT EWPTEKVKKAADHCRQILN FVNQAVKEAENKQRL/EEDYQ RRLDTSSLKLEYPNVEIRLRN MDLTRKMIHEGPLVWKVNR DKTIDLYTLLEDILVLLQKQD DRLVLRCHSKILASTADSKHTF SPVIKLTSLVRQVATDNKALF VISMSDNGAQIYELVAQTVSEK TVWQDLICRMAASVKEQSTKPI PLPQSTPGEEDNDEEDPSKLKE EQHGISVTGLQSPDRDLGLEST LISSKPQSHSLSTSGKSEVRDLF VAERQFAKEQHTDGTLEKVEGE DYQIAIPDSHLPVSKEIRRALDA LRNLGLLKQLLVHQLGLTEKSA LENWQHFPYRTAFQGPQTDS VIQNSNIKAYHSGEGHMPFRT GTGDIATCYSPTSTESFAPRDS VGLAPQDSQASNILVMDHMIM TPMPTMEPEGGLDDSGEHFFD AREAHSDENPSEGDGAVNKEE
18426	48794	A	18533	90	383	ILQLHSSGPCLLWL*LSFRSLST TAVCQCCRPAADFHPSGSSRVS AVLLIQ/HRRPLPLPIGLKACYFS ALSLQTSLTCLGLVVLLDFPKE AASLDKV
18427	48795	A	18534	1	456	
18428	48796	A	18535	830	1092	

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18429	48797	A	18536	391	1824	GSGADASGFISDAGLIFKKASSK GPKRLEKFSDERAAYFRCYHKL FLFSSLCYGTYHVVVLPTLKP REDEDWISLCLRHCLMQK DTH SMLGECGERREGKKQKTGALG SSLSLEDAKHLLPFIPALPFSWN ALPQDLCNVFKLLWDYRIRVD PSPIAGTLIRRDTPQGESHVKT GRHWSDTIKSQRCQGLRQPPDR PIPILLMVKGQHVWPSQLDKAQ IQEVTELNNVKNVARLPKSTKK HAIGIYFNDDTSKTFACESDLEA DEWCKVLQMECVGTRINDISL G\EPDLL\ATGVE\REQSERFNV Y\MTSP*LRLHGEALQV\T Y\EYICLWGRPTPQEFKLISW\P LSALRRY\GRGTPWFNYQAGR M\CQTGEGLFIFQTRDGEAIYQK VHS\AALAIAEQHERLLQSVKN SMLQMKMSERAASLSTMVPLP RSAYWQHITRQHSTGQLYRLQ DVSSPLKLHRTETFP SLQDS
18430	48798	C	18537	22	620	
18431	48799	A	18538	48	413	EDSKSKTISHPWRDCGDYCHH QGLERCRCGGDSHHTPVQLS*LA CAED\NKS WRMT\GIIVSLTKC* LQMQLLYQMWFHCLSKLTHLL GISTLQLCVTILFREILITFPLHKI SHWSITLMTLR
18432	48800	A	18539	23	124	QWVIISLTKW*LQLQLLYQMW FHCLSKLTRLLP
18433	48801	A	18540	1	1860	
18434	48802	A	18541	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKGNFRPISLMNI DAKIL
18435	48803	A	18542	1	1521	
18436	48804	B	18543	1	2265	
18437	48805	B	18544	1	1716	
18438	48806	A	18545	1	1704	
18439	48807	A	18546	1	3618	
18440	48808	A	18547	1	3087	

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18441	48809	A	18548	277	350	SPVEKELKLWKNRHKLLSC*W LTC
18442	48810	A	18549	197	422	IVNKVVLPQGGPASPGLKGFVW YKLAQVWKLIEGP*FPIHIIQISL LSI*PRSFLFV*IK*ECSRLPISFTS SGR
18443	48811	A	18550	1	3171	MVKGSIQQEELTILNIYAPNTG APRFKQVLSLQRLDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSOLKELEKQEQRHSPRRQE ITKMRAELKEIETQ
18444	48812	A	18551	209	2432	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEITIREYYKHLIYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPRDRTTKKGNFRPISLMNI DAKILNKILANQIQHHKKLIHH DQVGFIPGMQGWLEVLARA/IR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTNKWKNI PCSWIGRINIVK MAILPKVIYTFNAIPIKLPMTFFT ELEKTTLKFIWKQKRSHIAKSIL SQKNKAGDITLPDFKLHYKATV TKTAWYWYQNRDIDQWNTTE PSEIMLHIYNHLIFDKPDKNKQ WGNDSLFNKWCWENWLAICR KLKLDPFLTSYTKINSRWIKDL NVRPKTIKTLEENLGNTIQDIG MGKDFMSKTPKAVATKAKIDK WDVIKLSFCTAKETTIRVNRQ PTEWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAAKRHMKKCSSS
18445	48813	A	18552	1	3255	

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18446	48814	A	18553	1	3139	
18447	48815	A	18554	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQE QTHSKASRRQEITKIR AELKEIETQ
18448	48816	A	18555	1	3345	
18449	48817	B	18556	1	3127	
18450	48818	A	18557	1	3325	
18451	48819	A	18558	1	3145	
18452	48820	A	18559	1	548	
18453	48821	A	18560	1	3229	
18454	48822	A	18561	1	3352	
18455	48823	A	18562	1	1965	MGDFNTPLSTSDRSTRQKVNK DTQEMNSALHQADLIDIYRTRH PKSTEYTFLSAPHHTYSKTDHIL GSKALLSKCKRTEMITNYLSDH SAIKLELRIKLTQNCSTTWKL NNLLNNDYWVHNEMKAERKM FFETIENKDDTYQNLWDAFAV CRGKFIALNAHKRKQERSKIDT LTSQLKELEKQEKTHSKTIRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRTLARLIKRR EKNQIDRIKNDKGDTTDPQIQ TTIREYYKHYANKPENLEEMD KFLDTYTLPRLNQEEVESLNRPI SGSEIVAIINSLPIKSPGPDGFT AEFYQSYKKELVPLLLKLFQSIE KEGILPNSFYEASIILLPKRGRDT TKKENFRPISLMNIDAKILNKIL AKRIQQHIKKLIHHDQVGFIPG MQGIKYLGIQLTRDMKDLLKE NYKQLLNEIKEDTNKWKNI PCS WVGRINIVKMAILP/KELEKTTL KFIWNQKRACIAKSILSQKKA GGITLPDFKLYYKATVTKTARL YTKHGTSCCGSFGELLPMQKA KRELAHHMAKAGARVKGQLG HVTQHQLGSIEWFNKYSYSTYY TVDTKPQFSHPTKDNKTGLTCR NRTTVGVLDLQAKGNLVVKHLS SLQHCYEFICHI

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18456	48824	A	18563	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18457	48825	A	18564	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18458	48826	A	18565	1	3095	
18459	48827	A	18566	2	2678	

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18460	48828	A	18567	1	2478	MKAEIKMLFETKENKDDTTYQN LWDALKAVCRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ TLKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDAINKNDK GDITDPTEIQTIREYYKHLA NKLENLEEMDKFLDITYTLPRLN QEEVESLNRPIGAEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASILIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMISIDAEK AFDKIQPFMLKTLKKLEIKYL GIQLTKDVKDFFKENYKPLLKE IKEDTNKWKNI PCSWVGRINIV KMAILP/KELEKTTLKFIWNQK RACIAKAILSQKNAGGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTEITSEITPHIYNPIFD KPEKNKQWGKDSL FNKWCWE NWLALCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKLEENLGI TIRDIGMGKDFMSKTSTAMAT KAKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFATYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKSGNNRTPTRPIQ
18461	48829	B	18568	1	3403	
18462	48830	A	18569	2	2976	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDIYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEIITNCLSDHSAI KLELRIKLTQNRSTTWKLNNL LLNDYWVHNEMKAEIRMFET NENKDDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQE QTHSKASRRQEIT KIRAELEIETQKTLQKINEISR SWFFERINK
18463	48831	A	18570	472	829	AIASESASP KAWQLPCGAAQQF AALPGLGNYKFPLTLITGYGSN KSPP*GYLVFQTYSSLPLRLPP GHFGFLLPLSQRLRRELQCWL G*LTQTIKMKSVYHSTTEVRKS MHGIQEIH

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18464	48832	B	18571	1	2293	
18465	48833	A	18572	1	3810	
18466	48834	B	18573	1	4107	
18467	48835	B	18574	87	3161	
18468	48836	A	18575	1	3192	
18469	48837	A	18576	1	1983	
18470	48838	A	18577	1	3156	
18471	48839	B	18578	1	3471	
18472	48840	B	18579	1	2337	
18473	48841	A	18580	1	3852	
18474	48842	A	18581	1	3057	
18475	48843	A	18582	1202	2004	SGIYMIGFEQVLKAQPPLSSPNG PMNKVATVVGMEVMHGLSNM DFHSRRLTWLRPLPGFTGPG/Y QGVKVEVAPLTITPSDPLAKFL LLISATSTSLEVTVPGEMLPPR DTTKIATFGTQTGFLALQLADG LLWDLVIIPGKGKPSRDLVESPS PYSTYEGIDGWPDEAPTATKP PVMPAPALPPDTRSGSKAPTVP TPYPQMEHHQVQLASNNSENTE ALGHLSPQSSWVQTPGQNSGP AIPNHLGKDMISPPQMAPAGVK WESQKY
18476	48844	A	18583	1	2832	
18477	48845	A	18584	1	3702	MQKKHDKIRNSFMIKTLKKLRT EGIYLNLIKATYKKPITNINLGE NQKAFALRSGTRFWILALCQM SRLRKLNYLSDHSAIKLELRIK NPTQSRPTTWKLNLLNDYW VHNEMKAEIKMFETNENKDT TYQNLWDAFKAVCRGKLIALN AHKRKQERSKIDTLTSQLEKE KQEQTTHSKASRRQEITKIRAE KETETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDTI KNDKGDITTDPT
18478	48846	A	18585	1	3139	
18479	48847	A	18586	2	2918	
18480	48848	B	18587	1	3242	
18481	48849	A	18588	1	3640	
18482	48850	A	18589	371	522	
18483	48851	B	18590	1	3918	
18484	48852	A	18591	1	3057	

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18485	48853	A	18592	1	3233	MGKKQSRKTANSKKQSTSPPP KEHSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTGKGE VENFEKNLEECITTITNTEKCLK ELMELKAKAQELREECRSLRSR CNQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLTGVPESDGENGTKE NTLQDIIQENFPNLARQANIQQ EIQRMPQRYSSRRATPRHIIVR TKVEMKEKMLRAAREKDRSTR QKVNKNTQELNSA
18486	48854	A	18593	965	4165	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKLNQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDDTTYQNLWDA FKAVCRGKFIALNAHKRQERS KIDTLTSQLEKEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
18487	48855	A	18594	1	5093	MEGEMNEMKREGKFREKRIKR NEQSLQEIWYVVRPNLRLIGV PESDGENGTKELENTLQDIIQEN PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEITNYLSDHSAIKLE LRIKNTQNRSTTWKLNNLLN DYWVHNKMKAEIKMFFETNEN KDDTTYQNLWDTF
18488	48856	A	18595	1	131	
18489	48857	A	18596	5382	9269	RAKSPANIIMTGSNSHITLTN VNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKK\AGVAILVS DKTDFKPTKIKRDKEGHCIVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRSTRQKVNTDTQELN SALHQADLIDIYRTLHPKSTEYT FFSAPHHTYSKIDHIVGSKALLS KCKRTEITNHLSDHSAIKLELRI KNLTQS
18490	48858	A	18597	1	312	

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18491	48859	A	18598	142	876	RKKGILPPKESLKELEEEAEEEQ RILQQSVVKTYEDMTLEELEDH EDEFNEEDECAIEMCRQRLAE WKATKLKNKFGEVLEISGKDY VQEVTKA/ERRALWVILHLYK QGIPLCAL\VNQHLSWTLPGSFP DVKFIKAISTTCIPNYTDRNLP\T ILVYPGRRYQGLSLLVLWCLAG MNPQEMSWEWKLSGAIMT DLEENPKKPIEDVLLVLSAALW SS*RGDSDSEGLRATASITCRT
18492	48860	A	18599	1	2310	
18493	48861	A	18600	3	1124	LYNRRRRRRRCSHCRHRCRRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNSKPLS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTWSQVNLVEILP AIFSSFLNLQHVNLWFLAAAM KAVTEQGHLSNEERNLLSVA YKNVVGARRSSWRVISSIEQKT ERNEKKQQMGKEYREKIEAEL QDICNDVLVRGQCFCFEQWFL NSINLMYKCRLSNYFRYLSEVA SGDNKQSK*YL*KEIRPVMPEV FFHRDFLTILIRLGLALNFSVFY YEILNSPEKACSLAKTVRKTL DI*P*QNSACVINFILFLNLRDN LTVSTTSTGFIVSFLFTYLIHCY LQEGICTIKCSYSFKLLNLL
18494	48862	A	18601	340	1323	AARPQKRHHNNHSSLLTGSHIH WKRGRVQNIADVLQFCLYLLT VLFVPCSPPTGMTMDKSELVQ KAKLAEQAERYDDMACSSERH VTEQG\HE\LSNEEKKSCSLVAY K\NV\VGARRFLPGRVISSI*A*K QRRNEKKAADGQKSTREKIEG RTCRTFCN*CFWELLGQISLFPN ATQPRKVKVIFYFEK*KGDYFAR YLF*KWQS*RQQTQPTCVGTSP ARAYPGSNLKI*LRKKMQP\TH PNSVLVLAPKFPQSFYIE\NLSP \EKGLVSLGKNGHFD*SNLLNL DTLEWKS\IKDSTSDSWQLLR\ DN\TLWDIRKTRGDEGDAGEG
18495	48863	A	18602	33	89	
18496	48864	B	18603	167	232	

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18497	48865	A	18604	14	600	MAELAPASPSDIKASVSNQDIT LLCSRRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGGSLCPSR AW/PDPHQLFDDTSSAQSRGYG AQRAPGGLSYPAASPTPHAAFL ADPVSNMAMAYGSSLAAQKG ELVDKNVSGRGWWEWGDARG HRASDLSSASPD\HRFIPITKLKY YFAVDTMYVGRKLGLLFFPYL
18498	48866	B	18605	1	1230	
18499	48867	B	18606	41	931	
18500	48868	A	18607	3	166	PRPFPSRLPPGIIGGEYD\QRPN PILP\GRGGPNDRFPF\RPSRGRP TDGRLSFM
18501	48869	A	18608	212	1881	CLRVLLLKRTWPVEVPETGARP /TGGILRSH\LRQSLCTWGYSS NTRFTITLNYKDPLTGDEETLAS YGIVSGDLICLILQDDIPAPNIPS STDSEHS\SLQNNEQPSLATSSN QTSMQDEQPSDSFQQAQSG VWNDDS\MLG\PSQNFEEAISIQD NAHMAEGTGFYPSRTPCSW*L NPVEGQVP\HSLETLYQLADCS\ DANDALIV\IH\LLMLESYIPQ GT\EAKALSMPEKWKLSGVYK LQYMHPLCEG\SSVT\LTCPVPLG \NLIVVNATLKINNEVRKC*KGC SLLPESFICKEKLGENVANIYK DLQKLSRLFKDQLAHPLLAFT QAL\NLPDVFGLVVLPLELKLRI FRLLDVRSVLSLS\AVCRDLFTA SNDPLLWRVFIYCVNFRDNT\ RVQ\DTDWERTVQGRRAHTKE KESPKGRVLWMLLAIRQTH\TIP FYSQPLWHPRGHFPKLPAFPPGI YSGGWNMDQR\PTFPYVGRTQ SSSLNSWVLGETPKPSFLPLRPR FDPVWPHFPGP*PPSLPRARAGP NDQISPFPPQQGSGQLIGRLSIH
18502	48870	A	18609	1	1065	
18503	48871	A	18610	1	1513	
18504	48872	A	18611	1	2247	
18505	48873	A	18612	3	421	
18506	48874	A	18613	1	103	
18507	48875	A	18614	3	435	
18508	48876	A	18615	268	501	QLECIPTWELWKEEQERAMA GGGLKKIISATEKKLARMLLAP SASWCCSGP*VFHGST*WGKPG PVSVSLLQGVLGK

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18509	48877	A	18616	3	296	EAMEAVILTCDPATPAASYQW WMNGQSLPMTHRLQLSKTNRT LFIFGVTKYIAGPYECEIRNPS*V PAASDPVTLESPPLLFNGLATTE TLRKRGNP
18510	48878	A	18617	3	1464	GAVRTWGRGFQTEKQASLLN FWNPPTTAQVTIEAEPKTVSKG KDVLLLVHNLQPQLAGYIWYK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGTGET GHFTFTLY\LIPWTLTYL*RS LAQVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCREENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNLYP REDMEAVSLTCDPETHDASYL WWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLLPKLPKYI TINNLPRENKDVLAFTCEPKS EN\YTYIWWLNGQSLPGSVPR VKRPIENRVLFTPCSRGIETG\P Y\QCE\RDYGGHPQLPSHPGM SSITTKHSGLYACSVRNSATGM ESSKSMTVKVSAPSGTGHLPLGL
18511	48879	A	18618	79	1516	
18512	48880	B	18619	96	1730	
18513	48881	A	18620	9854	11033	ESLCFPKTEQEASQSLSP*IIHLS CDTCTSYWLSRTHVG*QVGDA NSE*RMPVEESKVPHRTIFCYPH SKLPMPYITINNLPREKKDVL AFTCEPKSRNYTYIWWLNGQS LPVSPRVKRPIENRILILPSVTRN ETGPYQCEIRDYGGIRSNPVT NLCEYPLFLCGPGHQLNSKRP EARPLSLSPVQV*TTLLDIRPG HDSLPWEILGRHSLNQEYKGRG ALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHRLCLGSEG HCVPLRDQEHPLPLDDITCGFIL FPPDGPDLPRIYPSFTYYRSGEN LDLSCFADSNPPAEYSWTINGK FQLSGQKLFIPQITTNHSGLYAC SVRNSATGKEISKSMIVKVSGK WIPASLAIGF

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18514	48882	A	18621	3	1350	GRTAQLTAVLRKLLDPRLISTE ENTQAAETMGPLSAPPCTHLIT WKGVLLTASLLNFWNPPTTAQ VTIEAQPPKVSEGKDVLLLVHN LPQNLAGYIWYKGQMTYVYH YITSYVVDGQRIIYGPAYSGRER VYSNASLLIQNVQTQEDAGSYTL HIIKRRDGTGGVTGHFTFTLHL ETPKPSISSNLPREAMEAVIL TCDPATPAASYQWWMNQSLP MTHRLQLSKTNRTLFIGVTKY IAGPYECEIRNPVSASRSDPVT NLLPKLSKPYITINNLPRENKD VLTFTCEPKSENYTYIWWLNG QSLPVSPIVVKRPIENRILIPNV TRNETGPYQCEIRDYGGIRSD PVTNLNVLGPDLPISIYPSFTYR SGENLYLSCFAESNPRAQYSWT INGKFQLSGQKLSIPQITTKHSG LYACSVRNSATGKESSKSITVK
18515	48883	A	18622	273	2271	CGSWLMTQFSMDKRQGRSRSV TITNTAVTSLEWVPFHAFaiprs TLVSQQGATSHDNTQEMDSP GQEPGFAKEVEVEPGFQPLPQM TLLVPAMCLLLHGACSAKGFC AAPHFLLASPMGKGQVPLNPFS FTLSEELDLPQSLKRNPKGCIAR RAKPILAAERHKRLILHTSTKEN TLLDNRVIECLTMEAVAKFNIM KEREKPSHPALSPPKARWHIL WQKLMFTASLLTFWEPPTTAR VTTEAMPFNATEEEEEFFLLA HNLPQNLTRATIWYK\QQMRH LYHYITSYVVDGEIIIYG\PAYSG RETAYSNASLLIQNV\TRED\AG SYTLHIIK\RGDGTGGVTGRFTF TLYLETPKPSISSNFPNPREATE AVILTCDPETPDASYLWWMNQ Q\SLPMTHSLQLSKANRTLYLF G\VTNYTAGPY\ECEIRNPVSAS RSDPVTNL\LLP\KLKPYITINN LKPR\EE*GCLRPFCEPKE*GTT PYIWWVKRFRSLPSPGVKRP LKNRILIPVFTTRKWKQGPYS MWNYGDRYGG\IRSLPSSPWNV LLWVQDLPRILPFHFTYRSGR KSSYLSCSGGTLNPPAQYSWD N*WKSFQLTRGQKLFYSGHITT KHSGLYVC\SVRNSATGRESSK SMTVEVSDWDITLNSTSTNSIF
18516	48884	A	18623	1	1131	

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18517	48885	A	18624	1	603	MDIADPFSGFPMGMGGFTNMN FGRSRPAQEPTTRKKQDPPVTHD LRVSLEEIYSGCTKKMYQED\KI SHKRLNPDGKSIRNEDKILTIEV KKGISLPEALCG/TTVNVPTLDG RTIPVVFKDPAIRPGMRRKVRGE GLPLPKTPEKRGDLIIIELEVIFPE RIPQTSRTILEQILSSYLSYLSSP GLTRDLSRAQGFLDLSTSCGP
18518	48886	A	18625	3	1228	WSAAEPVDGDSGSAGRRRGWP PKTTYHPWAVARGASEKEIKR AYRRQALRSHDPKNKEPGAEE KFKEIAEAYEVLDRPRKREIFD HYREEALKGSGPSGG\SGGGAN ATSFSYTFHGEPLAMFAEFFGG RNPFDTF\GQ\RN EEGMDIDD PFSGFPMG/LWGGFTNVNF\GRS RSAQEPARKK\QDSP\VTHDLRV SLEGDLTAAVPRRCKKMKISH KRL/NTPDGKSIRNGDKILTIRSE RRGWKEGTQITFP\KEGDQTSN NI\PADIVFVLKDKPHNIFKRDG S\DIVIPARI\SLREA/LCVGCTV NCPHSGTGRT\IPVVFKECYQGL GMRRKSSWENGLPLPQNTREN VGDLII*GFEVIFPERIPQTSRT VLEAGSFQYSYLEVPQGLTRGP FPELKDFWDLFLPVVGP
18519	48887	A	18626	321	1121	GDAVPSAPRRPSRRTPGCGSRG ALQPGPPRA\PPPEP\PPRGAAA AAPPAGPAAPAARQPPRRPPAQ PRSCPRRVRPTPAWSPGRRGP RRSRRRPPGGPGPAAPLRLSRA HSPAPPGSPYRPHGAGTSVAP WTRPPAARGTEADPGRCPV SAP GTAPGQMRGRGSATQRLHRGH STAPGAGGRCRRPGGSGRPG AGAGPRRSTAAPPRCRRRSPTG PRSPRGPRSARPARGSVGGPRG TPGKQGPARRA*TSGP EPRCCG HARG
18520	48888	A	18628	191	653	KLEIQRLLRMTTECIRHTKQKK FGSPGLQPPLPGNAKSRADSTA LPALPAQQKETKQEPGESS*E PGGSSPSRMERAEAAPAQ/PA GGTGTGQGWGAPHLGPALARR VTGPPQHGSPPRTRPTYPAR C/PSRPVPAIVWSRLRAPPGLP
18521	48889	A	18629	141	319	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18522	48890	A	18630	178	722	PLGNVSCSHRSFQTARVDYSLI YVLA WGQKKEVWELRNWQTH ALMKLKNKLREPRTSVNKD/SP KSLLYSCSYSYFDEPVELRSSSF SSWDDSSDSEYETHLLHLKL V* PNLAVFNCRPTARRKPDYEPVE NTDEAQNSFCKTAHNLWSLTFP FPCLL*YETRARLESWSLSCLR YEHISG
18523	48891	A	18631	2	367	
18524	48892	A	18632	1	381	QRYSSRRATPRHIVRFTKVERK ETMLRAAREKGRVTHKGKPIR LTVDLLAETLQARREWGPIFNI LNEKNFQPRISYPAKLSFISEGEI \\NPQMLR/DFVTTRPTLRDLLKE ALNMERNNRYLPGRPL
18525	48893	B	18633	1	846	
18526	48894	A	18634	3	1170	VGSMTGEASGNLQSQRKAKRK EARLTCLEPVEEPGSGTHPPMC YLAPPMWKCQKPETGIKEGDR DHNSLPAREENQTENESDELTE AGFRRWVITNSSRLKEHVVTQC KEAKNFEKSLKELLTRITSLEDN INYLMEPRNTAREHREAYSSIN SQIDQAEKIPEDQHNEIKRE DKIREKRMKRNKQSLQEIWDY VKRPNLSLAGVPESDEENGIKL KNTLQDIIQENFPNLAKQANIQI QEI\\QRTQPQRYSLRRATPRHIVR FTKVEMKEK\\MLRAAREKGR\\V THKGKPIRLTADLSAETLQAR/ RTEWGPIFNILKEKNF\\QPRISYP AK\\LSFISEGEIKYFTDKQMLRD FV\\TTR\\PALKRAPGKEGT*TLE RDN\\RYQPLQKHAKL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18527	48895	A	18635	73	1504	QDLRLFYLKDTMFSLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVAL\ERGKGILLMGM*E GRKYF\DFL\SSYSALSNGG\HC HPKIVKCSGRVKWDKIDL*HLE AFYNNGTLVNMREYYY*TFST YHKVLP\MNTGVEAGETA\CKL A\RKWGL/YTVKGIQKYK\AKIV FAAGNFWGRTLSAISSSTDPTS YDGFPGPFYARDFDIIPY**SCPH MEQCSFKDPKCGLA FHG*EPIQ G\EAGV\VPDPG\YLMGSAESS GTRDQVLFICLMEIQTGLARTW *DGLAVDYENVRPDIVLLGKAL SGGLYPVSAVLCDDDIMLTIKP GEHGSTYGGNPLGCRVAIAAL EV\LEENLAENADKLGILRNE LMKLTLP/SLMVTARKKEKGIY LNAHLAIKGNQKIWDA/WGKV CLRLQDNGLLPKPTSVATLSRF APPLVIKEDELRESIEINKTILS
18528	48896	A	18636	2	348	
18529	48897	A	18637	588	801	RTAYFCQYHTASVYSERAMPP GCPEPSQA*ELQETGHRQVALR RSGRPPKCAERPGAADTGAHCT STDGRL
18530	48898	A	18638	175	510	NSESPGPLWWLSCDNPAKDRIY STEADGLGLPDQS FVVHRAQL* CVAG*LGTHSRFQEWAV*D*SD LLKAQLHFKVGRCVWEAGGGL EWVLGGRCRCRVPQPLETLIQ WGPW
18531	48899	A	18640	1	1431	
18532	48900	A	18641	202	994	RWQQQRLLDSNIRLWVVLPIR YSFTFFRRALIRHY\SILLAERQ RSFTQGNKYLDSSSPNFEGRV/R FRGKLGNYIPKQSFFG/RRKFLF FPNPEDGIFSKKLKREVPPSPM TDPTMLTDMMKGNVT\NVLP ILIGGWINMTFSGFVTTKVPFPL \TLRF*A*WLQQGNRSYSPFCI PG*/WFCIPGYFPQCILGFRSI/YT LWISGGKDNGRWNQSRMM/DR SRMTGASHGPWPADSGRRFPN KRWEAL\ELTDHQWALDAAGE DAA
18533	48901	A	18642	97	224	LPTKSTWVAGKK*KKRSNIKD YSTPLTSYRSIRSHAFKIVAS

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18534	48902	A	18643	117	457	IWGDVEKGK\KVFYL*RC SQCH TV*/ERGGKHKTGPKSP*VSFGR RTGQAPWDTLYTAANK\NKGII WG\EDTLM\EYLENPKKVHPLD TKMIFVRHLRKREERADLIALS SKKLLN
18535	48903	A	18644	411	1054	VTGAQRLVTCRMGKQNSK\LA P\EV MED\LVKSTEFNEHELKQ WYKGF LKDCP\SGRLNLEEFQQ LYVK\FFPYGRRLPSFAQHAFPN LSTRMGDGT\DFREFICAL\SITS RG\SFEQKL\NW\AFNMYGPGW VMGKITRVEML\EIHRGLSYQN G*GTVIMMKMNEDGLTP\EQRV GQDFSARWVRNKDDQIYTGID FKGSCQRADPFIV*LL\QCDIHK
18536	48904	A	18645	3	475	GAEGARGGGSSYSEMAETVAD TRRLITKPQNLNDAYGPPSNFL EIDTNLPIFKLKESTVRRYSDF EWL RSELERESKVVPPLPGKA FLRQLPFRGDDGIFDDNFIEGKK TRGWEQFINK/VSLGHPLAQNE PLFFHMFLQDEIIDKSYTPSKIR
18537	48905	A	18646	1	695	LRARSLRDRCARAPCPHGGQQ RRRRLNAEGAEGARGGGSSY SEMAETVADTRRLITKPQNLND AYGPPSNF\LEIDVSNPQTVGVG RGRFTTYEIRVKTNLPCFQS*KN LIVRR\RYSDFEWLAKWNLERE SK\VVVPPLPG\KAFLRQLPFRG DDGNILMDNFI*/EERKIRGWSS FLNKVA\GHPLAQN\ERC\LHM VFYQDEIIDKLLLP SKNKAMP WKFGPRKGAKNVDY
18538	48906	C	18647	3	474	

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18539	48907	A	18648	156	1254	RPLHTLEVLRRTKRLVTKAA ASAARAQPAEPRDRKYDKHLS YLATWGRSAGRAGSPRGARGR ELARAPVSLPAGVPGRGSAAG HSSEARTGPNKGMMGSSREP EKTVPKPRGLSPTREVGHVHGT LGAGPNELHPSGPAGARCRPGR REAKLGDAARSEAQSSAHKFHI DSLSPWNPTAMEMLMPKKNR IAIYE\LLFK\EGVMVPKK\DVPI PKHPELAEQKCAPTFHVMK\A MQ\SLKSPRPT*KEQFAWRHFY WYLT\NEGIQ\YLRDYL\HLPPEI VPAHPYGRSPSRRLARPRPKKV WKGEATLRDFTRGEDSFLCH S\DSYRRSAVPP\GA\DKKAEAG GLGQKPNFQF\RGGFVRGRGQP
18540	48908	B	18649	1	1053	
18541	48909	A	18650	1	529	MGRYMEREPLOQNHRRSGLSG ERCSHMGGVLIERRRELQTETRK EGVVEWCWLEKEVLATITKPV RGDKNGGTQVVKHRKMPRY PTEDVPQKLLSHG\KKPFSQHM RKL\FLYRRHARNLSLPPQPELI SDVK\IPRHPADA*LEEQQLESEP E\HSEGTSY*RIPEKVLSYPAIRP
18542	48910	B	18651	258	363	
18543	48911	A	18652	197	398	ARMSQEKDFHKVMSALKARTG HLHFFCGGMSSVKVGQGFSLLL *FFSYFRPSGCILPL*ELPEARCP
18544	48912	A	18653	215	932	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPPVLCMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RVVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP*VASPL*RSKYPNLVSL CPSPLFPRPDLLSLWPNPLF\RTPT TSYISVPQSLISMPRLISAPQPLI STTQPLSRFSGRSLQVPEIWPP GQGMPAARDSS
18545	48913	A	18654	1	378	
18546	48914	A	18655	14	380	
18547	48915	C	18656	228	260	
18548	48916	C	18657	99	335	
18549	48917	A	18658	55	474	RQVPLFWGRGKYPNPFSLCLYP FSAFLGGKKHPTSPSP*VASPL F*RSKYPNLVSLCPSPLFPRPD LSLWPNPLF\RTPTSYISVPQSLI SMRPLISAPQPLISTTQPLSRFS GRSLQVPEIWPPGQGMPAAR

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18550	48918	A	18659	1	187	AELATGNVKVEASGTPEEKAG SVLG*ACFAGP*ERCCWQNN*D GIISIQSYCLCNLGCFIQT
18551	48919	C	18660	1	357	
18552	48920	A	18661	3	148	
18553	48921	A	18662	1	312	
18554	48922	A	18663	149	457	
18555	48923	B	18664	1	675	
18556	48924	C	18665	110	928	
18557	48925	A	18666	495	817	LTSPSRCTIIEKSCSSLPPL*DKP QPHLQHTRTSKRLNCSSQVFLQ NLLPEELATSSRNLATGPRNAC SPGFLLSHIPSVWDPTGNRTVQ LTWQPLPEPELELWPKAL
18558	48926	A	18667	228	3021	VFDRTQNVQGRIMEAPEYLDL DEIDFSDDISYSVTSLKTIPELCR RCDTQNE\DRSVSSSSWNCGIST LITNTQKPTGIADVYSKFRPEKR VLPLKHQPETLENNESDDQKN QIVGEYQKGGESDLGPQPQELG PGDGVGGPPGKSSEPSTSLGEL EHYDLDMDDEILDVPIYKSSQQL ASFTKVTSEKRILGLCTTINGLS GKACSTGSSESSSSNMAPFCVL SPVKSPHLRKASAVIHDQHKLS TEETEISPL
18559	48927	A	18668	1440	1764	ERSTYNLRSSDQP/RPRNILT NF KS/VDKGDTFYPWTHNSGASH GLGR\RLPWC*ELATSARNLTP RPRTAGSPGFLLSHVPSVWDPT ANRTVQLTWQPLPEPELELWPK
18560	48928	A	18669	1	3255	MLTLTGAGGESWIIRPGNLLEQ LGAEETLGRREQPGDEVTAHFL LQGVINMGVPYPGAHSSNMP GSVSPILGHSVKLFEEYYPVGD PLMGSGRPHTPRKKIWSDLNA HSDLYLALDWTPLPEQSEPGPG LAAWKPFQAEYTCCKAEGNE NTPFDLRKGTLP CPRNLERARQ AYMHIEEKFPFELTEQHICEFQS MCYVLVRVLGACSQSTWLILEP DGVSGPSKGASEAIGQCQSSAA KPRRSGKESVREPWA

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18561	48929	A	18670	1	1442	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQHLPLDPWHE LLRAQELQGATNHHKGYSHAEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRTTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGDSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNNGEKRTL QKRKKGMPPHPA/S*GPKHSCH HSPCQCCPSSAK/SASELQGSWT PFGGLLTRTRMKFGAKTRDLD QGTSLGRSLPCPPTLCSMRKIHL RPQVLRPTSPRNISPISNPRQRR QVLSMDPKLRHRSRTGK/DSL P LVFNHCRDTSIIHPCFKGVRPR RDACLGPSPLAASPAFLEKGQD LINLAFKVYNNRKKLQFLASTV RQTAATSPAHKNFQMPEPQRP GVPPEPPTGACYMCRKIWPLG QANARSPGFLLSRVPSVRDPTG NRTVQLTWQPLPEALELWPKA
18562	48930	A	18671	140	327	
18563	48931	A	18672	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
18564	48932	A	18673	218	674	MPISRPTARFKRIKVYYHSPAT AWPSKAYKLPLQFPHTCPKTR QGLQVTSGSAPYQPNCFVYPPR VAKTKYSPILNTSLHNPLLCSGS QTCFLY/SFLCTFHPSLSSLGL TLTPIRLSKLRGLYCHKASQTA PITSIKPKFLPHLLPISA
18565	48933	A	18674	1	268	
18566	48934	A	18675	1	458	
18567	48935	A	18676	3	461	LLLTQSLFGGLFTRTRMKFGAV TRIGGPPLGNQSPSSCSLLHEKD PPTTSGPQTDQPKKHLTNFKSA ARPTFLGQGQVPLNPFSFTLS/E QVLLS*AARTPQSLISTPQPLISV PQSLISVPQPLLYFSGGQEPPPPP LLCVSSLFSRLASFTM
18568	48936	C	18677	156	329	
18569	48937	A	18678	449	667	
18570	48938	A	18679	79	311	

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18571	48939	A	18680	1	693	MAPTNCKGSRKCGRPHEQMPH PYLPLLTLFSDSARLHPGEINSR VPHTKPVWWSLHTDAYEIWYH DSDWGDLPWEINPLSSCSLLHE KDPPTTSGPQTNQPKHELMNFK SGPHWKSDCPTRQPLPGLELW PKA/HLTDSFPDLLSLAAED*CC LIALEAPWTITDAELWITLTVED SQLYEDTLAGRSVLIKNLTP*TL Q/PLDGLDPT*SSIVQLPSACRI LPTGFTVPE
18572	48940	A	18681	328	865	
18573	48941	A	18682	451	1238	TALLLTQSLFGGFLTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYSMFA *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPPQSILFWISNVLSLLF LCTLHPSLSSLSLGLTLPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
18574	48942	C	18683	870	1037	
18575	48943	A	18684	933	4323	AASHLCGTPLEIGLSNSPGSHSQ SPWNSGPRLSDCFDLLG*VAE D*HCPIASEASWTVTELWVTLT VEVAATALILLEALKITSYAPLT LYSSHNFNQNLFSSSHILT/PYTFC PQ/GPFSYTHSLLSLPQSPLLLA QTSIRPPTLFLIPHLTPMTVSL*/S/ ILTFIPFPHISFFVPHPDHTWFID GSSTRPNRHTPAKAGYAIVSST FHEATALPPSTTSQQAKLIALTQ ALTAKGLLVNIYTDSKYAFHI
18576	48944	A	18685	849	1944	WQVPLFSGRGKYPNPFSPCLYP FSAFPGKRQELATSARNLSDHQ AKECLQPRIPKPCPIFAGPHWK SDCSTSPGQPLPEPELWPKA/H LTDSFPDLLGLAA\ED*HCPIAS EAPETITDAELPVTLTVEGKSIP CLIDTGATHSTLPSFQGPVSLAP ITVVGIDGQASKPLKTPPLWCQ LGQHSFMHSFLVIPTCPLPLLGR NILTKLSASLTIPGVQLHLIAAL LPNPKPPLCPLTSPQYHPLPQDL

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18577	48945	A	18686	2	377	KGATIVYALDTLFIMEMKHEFE EAKSWVEENLDFNVNAEISVFE VNIRFVGGLLSAYYLSGEEIFRK KAVELGVKLLPAFHPTSPGIPWA LLNMKSGIGR\NWA WASGGSSI LAEF\GTLHLEFMHL
18578	48946	A	18687	215	1135	PITLRRHLFFSGIGRNWPWASG GSSILAEFGTLHGMKIVF*/HFH GNILFS\KVMNIRTVLNKLEKH YLN*KLNHSKIHFPLFPDHVS GGLGDSFYEYLLKAWLSINLRR DYKMLKNKCFSQAIETHLIRKS SSGLTYIAEWKGGLLEHKMGH LTCFAGGMFALGADAAPEGMA QHYPVSTVQENNPYSFIPCPLV MKLGPEAFRFDGGVEAIATRQ NEKYYILRPEVMETMYMFRL SGSDFSSFLLLPPQASSCFQTLF DLFKVPDSLCSILEFRRHSSRQP YSTDQPFIIYLVGKRILFCPLT
18579	48947	C	18688	304	400	
18580	48948	A	18689	16	450	
18581	48949	A	18690	1	777	GHSMDMRVPAQLLGLLLLWLP GARCVIWM TQSPGTL SLSPGER ATLSCRASQ RVNSNYLAWYQQ KPGKTPKLLIYGASNLETGVPS RFSGSGSGTDFITISLQSEDIA MYYCQQYNNWPHPSYTFGQGT KLE\KRT\VAAPSVVHLPGPSD EQLKIWELPSACVPA*NNF\YPQ SRPKVQWEGGITPLQ\SG*LPQE SVHRGRTRQGTAPYSPQQAPW TVRQSRITEETQSLTACEV\TPS GALRFRPVHKGAFNRGESF
18582	48950	A	18691	3	688	HASADAWAANAEEHRHDRPR GTLR\EYKV\VGRCCLTPK\CHT PLLPACIFAPNHVVAKS/RAF WYFVSQLK\KMKKVFQGGIGL LVGQVF*ESSPLR/V*KNFRGSW LAAMDSRERAPT NMLPGNNRG P*PPAGGCSTQLLTRDNVAPG TGAPKPHFHRFIERLEGRFAG QQSCRRP/ALVQSSFHDSKIKFP ACPNGVL\RRQHKPRF\TTKRPN TFFLGAGPSSGVC PK
18583	48951	A	18692	1	784	

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18584	48952	A	18693	1	4713	MQGPYLLLWLPDSLEEGKEGL YLGNCIHTCLVTPEDAFFPHF LTQHSGTHLPPSSDIPSHFMNNS TGRLAQRILGTSTEAFLSPEVM VVFHARNATVRTAMSLIERAK NCGHIPFFFPQTQGHYVLAEKQ VQSRNKQVRELPDGFSDIHA GMLRQDRNLVENLFSNGHIKV LVCTATLAWGVNLPAAHAVIIKG TQIYAAKRGSFVDLGILDVMQI FGRAGRPQFDKFGEGIIITTHDK LSHYLTLLTQRNPI
18585	48953	A	18694	313	489	SSCFKLHFQQLFKNCNTQMRN QIGFLRF*NNLVMLLSSSSVTNQ LELQKKIILLTCKMQ
18586	48954	A	18695	1	851	ACGWALAQRPARRAMVAGID AGRS\LGVLVSVCLLHCFGFISC FSQQIYGVVYGNVTFHVPSNVP LKEVLWKKQKDKVAELENSEF RAFSSFKNRVYLDTVSR*PSLST T*TSSR*KMKYEMESAKIVTD\T MKFLPYVP*VSFQSPTLT\TCA LNGSIEVQCMIEPHYNSHRGLIM YSW\DCP\MEQCKRNSTSIYFK MENDLPQK\I\CSLSNP\LFNTT SSIILTTCIPSSGHSRHR\YALIP IPLAVIPTCIVLYMEWVF*KCARN PDRTQLQLIGNRRMKTTA
18587	48955	C	18696	35	181	
18588	48956	A	18697	75	344	PQVLRPTSPRNISPILNRVSDHA GTPALVLHP*RQVPLFWGRGK YPNPLYLCAPIPYFRT/HNLISLR PNPLCPHPDLVSLCPDPFPAFLE
18589	48957	A	18698	1	268	
18590	48958	A	18699	39	376	QYISELQFLASTVRQTPATSPA HKNFQTPEPQQPGIPPEPPPGAC YKCWKSQGHQAKECLQPGIPRK PRPISGSHSQSPLELWPKA/HLT DSFPDLLGLAAED*HCPIASEAL
18591	48959	A	18700	2	295	CQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RQVPLF WGRGNHISGTQELPNT*TAV/V QAF/LPEPPPTG/CLLHVPEIWPL GQGMPEGQDSS
18592	48960	A	18701	81	402	VKFGPEIWCRSDSQGRGGVGT SLGRSIPCPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKA/HLTDSFP DLLGLAAEDRCCPIASEAP

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18593	48961	A	18702	165	439	PPRQAKMQNLAAPGSHSQSPW/ TLRPKAL*LTSPQIFSA*RLKTD TARSPRKPPSFQGPVSLASITVV GIDGQASKPLKTPQLWCQLRQ YSFK
18594	48962	A	18703	284	511	IILVVKWANGLRCLTSRHSFTH QSLPS/PLCPVQLVPN\SRLSPQS QPQASLSLSNLPFLQTHLTSPFL PRLLLARPK
18595	48963	C	18704	414	557	
18596	48964	A	18705	1	1284	MNFEGTETLHCNGHCKVIAMT LGNQEVNQRNFSTGTTGPMEG MWLLSSNSHSLKYAGAILLS AFQYQERGSQAGHRDSWPETK ETHFICGPKTPALVTDWEGSLP LVFNHCRDASLIHPRFSGVRPR RDACLGPSPLAATPQTITDTEL WVTLTVEVWDIST/LFPGN*SH A/TLPSH*NLITLPLNANI/AIPQ HALKGLKPVITRLLQHGLLKPI NSPYNSPILPVQKLDKSYRLVQ NLRLINKIVSPIHPVVPNPFAFTS QITQAVSQALGIQWNLHIPYHP QSSGKVERTNGLLKVHLTKLSL QLKKDWTVLLPLALLRIRACPR DATGYSRFELLYGRTFLLGPNLI PDTSPLDYLPVLQQARQAAN LLLPTDPQPHEDTLAGRSVLV KNLTPQTLQPRWTGPHFIISTP TAVCLQDPPH
18597	48965	B	18706	1	933	
18598	48966	A	18707	3	435	TKETGFIHGPKTPAPVTDWEGS LPLVFNHCRDTSIIHPCFKGVR PRRDACLGPSPLAASPAFLEKG QDLINLAFKVYNNRKKLQFLAS TVRQTAATSPAHKNFQMPEPQ RPGVPPEPPPTG/CLLHVPEIWP LGQGMPAARDSS
18599	48967	A	18708	2	111	
18600	48968	B	18709	1	595	
18601	48969	C	18710	1	1344	
18602	48970	A	18711	227	385	VPILPQPLLLHPAIFLSPLLTPG PAYSFVP*LALPHLPSNLLLKR WLEPKA
18603	48971	C	18712	148	258	
18604	48972	A	18713	215	693	
18605	48973	C	18714	1	816	
18606	48974	B	18715	1	513	
18607	48975	B	18716	1	1452	
18608	48976	A	18717	1137	1303	

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18609	48977	A	18718	2	2107	IDMIFTPGPPSTPKHKKSQKGSA FTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHPVNLNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSRISPRQRRSITRDSSTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFSLRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTFIKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTDQPKKHLT NFKSAARPTFLGQGGVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPPPPLLCVSSLFSLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
18610	48978	A	18719	828	1063	RHSQAAED*HCPAL/VPQTIID AELRVTLTVEGYSLPPGCLRGL MLSVSGFSRSTVQAVSGSTVLG SGGQWFSCASV

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18611	48979	A	18720	183	1140	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSG ETKEMHFIRGPKTPVPVTDWEG SLLLVFNHCRDGLSDHSATFQG CQT/MAGMPALVLHP*RQVPLF WGRSKLLLARLS*VPILQPPLLL HPIILLSPPLLTGPAYSFVFP*LS MSIHQVVLRPDEQGPGEQPP LYVMEPEINSFIAHTKPVWWS LHTDAHEIWCHDSRGTSLGRS IPCPALCSVRNIRLPQVLRPTS PRNISFILNQRQRRCILFVDPK LRCQSRTGKAAPSWCLHAGTA SLIIQPHFKGVRPCRDAELGSP LAASPAFLGKEQAAPCQAEELGP NSSASAPPPYNPFITSPHTRSG LQFRSVTSPPPAQQFTLKKVA GAKDIVKASLAPALAQGVPGTP QATASEGASLKSWECLCGVNL ATAQSARVKEACQEACQSLPRF QRMYEKAWVPKQKTAEVELS QRASTRVVLRGVNGLESPPRVF SIALSSGAVGGVHCPSDHRMIE PAAFNLMSKNPQRQSCSLRA
18612	48980	A	18721	372	906	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQTDQPKKHLTNFKSE KKETRFIRGPKTPAPVMD*GRQ PSLGV*PLQGCLSDYSPRFQRC QTTQGHLPWSFTLSSKSHFSGG RGKSLLQVPEIWPPGQGMCAA QDSS*AVPICAGPRWKSDCPTH LAATPKAPGTLAQGSITPSQIFL
18613	48981	A	18722	983	1980	KFGLVQLTLGKPLPEPELRLPK A/HLTDSFPDLLGLAAED*HCPI ASEAA*TITDELRTLTVEVW DIST/LFPGN*SHA/TLPSH*NLIT LTPLNANI/AIPQHALKGLKPVIT RLLQHGLLKPINSPYNSPILPVQ KLDKSYRLVQNLRLINKIVSPIH PVVPNPPAFTSQITQAVSQALGI QWNLHIPYHPQSSGKVERTNGL LKVHLTKLSLQKKDWTVLLP LALLRIRACPRDATGYRSFELL YGRTFLLGPNLIPDTSPLGDYLP VLQQAQQAANLLPTDPQPHE DTLAGRSVLVKNLTPQTLQPR WTGPHFIIYSTPTAVCLQDPPH
18614	48982	B	18723	1	271	

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18615	48983	A	18724	803	1158	CSWHDRFPDWKAGNLLSLAA* D*HCPHASEAP*TITDAELQVTL TVEGSGDLPWEINPPSSYTLLCE KDPPTTSGPQTNQPKKHSHQFQ IRDKGDTFYPWTHNSGASHGL GRQPSLGV
18616	48984	A	18725	1855	2506	GASPSVWDPTENRTVQLHLGS HSQSPWNTGQSRDLTSFPDLL GLAA\ED*HCPITSEAPLTITDAR AMG*LSTVEGKPVFLINTEAT HATLPSFQGPVSLASIT\VVGID G\QAF*TSCLKPNSWCQH*TIRR FKHSFLVIP\TCQVPLL\EDTLT KLSASLTIPGLQLYLIATLLPNP KPPLCPPLVYPHLNPQV*DISTP SLGDRSCTPYHLIKT
18617	48985	A	18726	2	979	TSTMAVGKNKRLTKG\GKKGA KKKVVDPPRI\KD\WY*RRKHPL MFH\IRNIEKDVGSPRTPRDPKL QSDGLKGSVCLKVSPAELPE*L KFAFRKFK\LITEDVSGVKTCPD LTSHGAWDLYP*QNCCSMVQK MGRPMIEA\HVECSRLTD\GYLL \RLFVGFYLNKRNISDHGRPSY AQPPNRVR\QIR\KKMMEIHDPQ RLQTNVP*KEVVNKLIPASIGK\ DIEKACQ\SIYPL\QNVF\VKKV KMLK\KPKF\ELGKLMELHGE SSSGKATGDETGA\KVERADGY GPPVQESVGKFRPLPIVGNRSGH CVKKEKQSSRRRDFGVSVHPRI
18618	48986	A	18727	1	615	ASTAAPRMLLLFQPRYRTLQPP RLLMPPKKNR\IAIYE\LLFKIEGV MVPKK\DVPIPKHPELA\DRNVP NLHVMKAMQVSQSPRG\YVKE QFA/WKKISYWCLTN*GYQGVS ISSRDYL\HLPP\EIVPA/TPLRRS RPED/SGRPSA*KGLEG*SDLAR LHKNGEAGQRLPYRR\SAVPP\G \ADKKAEGGLGQKPEF\QF\RG GFVRGRGQ\PPQ
18619	48987	A	18728	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH

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18620	48988	A	18729	323	1973	PCMWIGFAAVRKGLKDSSSASC GCTRRVRGTWWQGLSRVCVA RNEEVRLWGLCWLGSSPPAGW NNVFYMLISADVLACLEPRAN KEAANELAGAVDLGWMANVR RNPRDMVTSTHLGTHFHLRKT PRGEKTCELASQQPLIEATTKT KSAVAVSHILTYTPPTLNGVA SSRVHFSFWPPTLQTGLEQGS SFTICFTTSTNYQSLHSIQPHS VQFISSTAKVYAVLRGLGSR VSFSTSFWSGWGSGGLAAGMP GIDNARLAADDFRVKYKTEL MCLSVESNVRGLHKVTDDTNV TRLQLETEMEALKEELFMKK NQEKEVKGLQALIASSELTME NAPKSQDLSNIMADLPAQYDEL A\RKN*EELDKYWSQED/IEEHT TVVTNTSLLEVWSC*DARLTEL RRTSPGLWRFDLDSM\RNLK\AS LENSL\REVEAPYAL\QMEQL\N GILLHLESQLGQTPRTEAQRQA Q\EYEALL\NIKVKL\EAELATLP GRLGRMAKDFNL\GDSLDER NSFQNL\QKTNTPPGNVDGKVV S\ETN\DTKVLRH
18621	48989	A	18730	1	897	MGHRRQSLSPVLSLYSPDSMS FTTRSTFFTNYQSLGSVQAPSY GARAVSSAASVYAGAGGSGSRI SVSRSTSFRGGMGPGLAAGM AGGLAGMGGIQNKKTMQSLN DRLASYLDRVRSLETENRRLES KIREHLENKGPQVKDWSHYCK TIEDLRAQIFANTVDNACIVLHI DNARLAADDFRVKYETQLAMR QSVENDIHGLRKLETEIEALREE LLFMKNHEEEVKGLQAQIASFR LTVEVDAPKSQDLAKIMADIRA QYDDLAKGNREELDKYWPQQF EENTTVVTQSAEVGAA
18622	48990	A	18731	3	423	SLSPVLSLSPDSMSFTTRSTFST NYRSLGSVQAPSYGARPVSSAA SVYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNAR

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18623	48991	A	18732	663	2089	AFTTRSTFSTNYRSLG\SVQAPS YGAGPGRAARPAASYAGAGGSG SRISVSRSTSFRG\GMGSGGLGQ RELAGG\LAG\MGGIQ\NEKETM A/QALNDRLGLFTWDRVRS LG DRRTRKLGRAKFREHFGRKKG PQ\VR\DSHYFK\IEDL\RAQIF RKYL LDNAPHPFLQDLTIAPSL LD*F*EFKY*GQSLAMRQFLWR NDIPLGSAKV\IDDTQYHTDLQ AWRQRFEAPQRRELALSMKKE PRRRKLKGLSSPRLPSSWG*PVE VRLPPNFQDLRQSLADIPGPN MNELGSKKNPRRKLQSTWSQ QI*GRAPQLVTTTSLLEVGSLLK TTL/TQKLRRTPGPWKIRPWT MKKS*KAQLGRNSP*REVGRPP YGPYKMEASFKRGSLLHP*SQS W/QTRPGAEGTAPQAPRSYEGP C*NIKRSKLEA*DRPPYPALLE D\GEDF*SLVDPLDSKQLHAKPI QKTTTPPG*VGLGKVVS
18624	48992	A	18733	53	1100	NFRVEAGVRGVQKETCAFKV LES\GKF\GLALAVAGGVVNSA LYNVDAG\HRAVIFDRFRGVQ\ DIV\GKGTHFLIP\WVQETQLS FD\CRSRPRN\VPSSQSTG*AKDL QNVQHHTAASLFRACRQPSFPR IFTSIGEDYGWSVCLPSITTEVL KVS VGS L WMLGELITKRELVS RQV\SDDL\TERAATFGLILDDV SLTHLTFGK\DFT*AVEAKQVA QQEAEKGQICWLEKAEQQKK\ AAIISAEGDSKAAELIANSLATA GDGLIELRKL/E*AAEDIA YQLS RSRNITYLPTG\QSVLLQ\LPQLR GPPLPCTSRGLDLGPQPRILNN SLSFLLPTPEINCEIFMIGLK
18625	48993	C	18734	222	458	

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18626	48994	A	18735	2104	2758	QFCPSRQKGCLQKTRHFVAGH GGDFLFRSPTHAFPCVPLFPLP P/VTIVRPCPPFS*VLSSSPRNSQ NTIPRSPFLSPGTLSPAGSRDP GNPAPGSNTRLGPTAPVSRLAP VDIGFRSTDCWSLQPQVPVNP SRPAPTNP RSRSTPVDPGSNTRL GPTAPVSRLAPV\ V*ALGPLTAG PYSPR/CPVNPGRPAPTNP RSR STPVDPGSNTRLGPTAPVSRLA PVDIGFRSTDCWSLQPQVPVNP GSRPAPTNP RSRSTPVDPGTRTT PEGL
18627	48995	A	18736	2	280	AMGFIVAPSLGCF/VGSRFVHG EGLRWYAGLQKPSWHPHWV LGPVWGTLYSAMGYGSYLWV KELGGFTGVSRASEVAPPEPPP GSSVLCFLHA
18628	48996	A	18737	331	972	TAAAAAMAPPWVPAMGFTLAP SLGCFVGSRFVHGEGLRWYAG LQKPSWHPHWV LGPVWGTLY SAMG*VG VHWPGDKPGPLQGE AWPRTEDTGLALNWA WPIF FGARQMGGALVNLLLVS\GAA GHTTLGGRGAS\QWLAARLLYP \YLGLAWPSTTTTQTTCVWR\D\ NHGWHGGRRLARVSARPTMG LQLHQAGAITLVMWWPSRFHD HWAC
18629	48997	A	18738	1	603	
18630	48998	A	18739	1	1782	
18631	48999	A	18740	237	876	CESFCWHHFFWDIFNLVFTAPF LVHVDYQGFESVAKKYDVMN DMMSLGIHRVWEGFSCSGKMH PLPGD\QLLDVAGGTGDIAFRFL NYVQSQHQKQKQRLRAQQN LSWEEIAKEYQNEEDSLGGSRV VVCINKEMLKVGKQKALAQQ YRAAHKSGVILDCLWFPPILHPI AQQICQLYLQNTSGIWPSLPYL CYHLLVQATIPSYLDCCNSL

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18632	49000	A	18741	112	995	VLGSLSQEKRAAETHFGFETVS EEKGGKVYQVFESVAKKYDV MNDMMSLGIHRVWKDLLLWK MHPLPGTQLLDVAGGTGDIAFR FLNYVSVPASEKTEEAVKGPTK FILGKNLPKSTRMKKIPWAG/TR VVVCDINKEMLKVGKQKALA\ KDTRAGLAWLL*DAEELPFDD DKFDIYTIAFGIRNVTHIDQALQ GSSFGCLKPG\GRFLCLGFSQVE QSP\LSRLYDLYS\SRVIPVLGEV IAGDWKSYQYLVE\SIRRFPSQE \KFKD\MIEDAGFPQ/V*LTKV*H QGIVAIHSGFKL
18633	49001	A	18742	117	403	
18634	49002	C	18743	62	370	
18635	49003	A	18744	179	527	IQEPPVI**GLHMHNFNTIFVSS YFKFESTFAISFLKVFN/CFFSI* IKSLDEQCVVGKISKHWTGILR EAFTDADNFGIQFPLDLVKMK AVMKVGICGKNLVKQGNFTMT HSN
18636	49004	A	18745	3	1242	AAPQAGLSPVAIAAAIQLHLHS TQCSSPNTCCLPRRTRATIIYSR WSYHPLGSVP*SP*PFQEAS/AL TLPPACSFYGPLT*FQPKP*GSFP LSQ*MEYTIGLYT*TFHCPGTSR RQIPSSYLNCDAFLPLL/SNPP QCRPFTGVGLVDVLTGFETNN KYEIKNSFGQRVYFAAEDTDCC TRNCCGPSRPFTLRIDNMGQE VITLERPLRCSSCCCPCLQEIKS LDEQCVVGKISKYWTGILREAF TDADNFGIQFPLDLVKMKAV MIGACFLIDRNCSPAMEQSWM ENYFDEMTEIGFRRSVITNFSEL KEHVLTHCKEANKNLDKMLDE WLTRKNSVEKTLNELMEVKTI NEKLTIGKISKYWSGFVNDVFT NADNFGIHVPADLDVTVKAAM IGACFLFAFRLGSELHN
18637	49005	B	18746	277	2415	
18638	49006	A	18747	102	196	

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18639	49007	A	18748	897	1656	SNAGLRHVCRTSCQSGRARSCH VGLHTPWVS*VPWHPWGIRWR GDPQKSQRSRKCCVPGGAP/QK GGDPEPQPSLSVSWNWLSGSCA GFRAVLPRKPQRKVLWFASSA GTAATEPPR**LAWKADSGGDP WQQPQQSARPHA*TWTWRGD GAPPGRVA/QGRGTAGGASAG VSSGRSRGSPQTGFQALQSCLE ASRRPPVVACNPHPAGALPAAQ AGNRATLMTGSCQLQMPIMYEE AQLRLEELCTKARLNCQWFL
18640	49008	A	18749	756	884	CLQRLLPFGFRRQPSKYRRNRG KSGKG*RPSPVATWQPDYNI
18641	49009	A	18750	1826	2772	RRVLEAMGPSRAAKVLSVCVR SRIGPLICSQRHPATSKTKPQGR PPGEQGTPRDNPRRNNRPARSA TPRGA/PQGAPPRPGEEPNAQT IDKGPPSPSRGHTRRLARSGNQ PPERHTPAAGGKTRYVVRQSVL HRARGGEPVRMPRLPRIAEA/P APDRVECF*VVQSPAREMHSCQ ADSMCPVW*GRIWRSAGSC*SR SEKILVWIPQSGLQAHACPSEA HKMPGNPRDGGAGICKSSPGG KGERRKVEGGSTTRAGTSRDS VSKRHANTMGEQAQGEKHPRG TV*KTKRRGPKGQTRGTKAPEE ETSREPPCTGPI
18642	49010	A	18751	196	322	
18643	49011	C	18752	189	650	
18644	49012	A	18753	1	53	
18645	49013	A	18754	31	449	
18646	49014	A	18755	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VWSITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQQDYFP RRSYRCSHRLIICLNVIGNAL
18647	49015	A	18756	1	1041	
18648	49016	B	18757	15	782	

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18649	49017	A	18758	1	1425	EVKKINNAHTIGCNAVSWAPA VVPGLIDHPSGQKPNYIKRFAS GGCDNLIKWLKEEEDGQWKEE QKLEAHSWVRDVAWAPSIG/ LWPPSTIASCSQDGRVFIWTL** CPQAITVVPLNCLHKFNDVVLG MLNWGPSQPTSLAVSGGDNKN GTNTVCPTGWLQDSNTLVHLV TYKMPSRLGLGFLWCQLSPR KYREGTSPVSLWVGEVWFNP DWWGSIRVYHPSPSGSYRTHKP PLNNLSCDTSIIRELLKGGKFL FVSVYPVPSTVLGRKKVSVINT VDTSHEDMIHDAQMDYYGTRL ATCSSDRSVKIFDVRNGGQILIA DLRGWPRASRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEVTYTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
18650	49018	B	18759	323	1583	
18651	49019	A	18760	3	419	PSASSSPARIPAAATRQGRSPRIP PAPSNEAPRLPADREFLEQQPPR FPKPTIQASGADRAVDCGILKL QKS\PARLARPRWPRRPSKRFW SAAGSVEEQPKPPRRRAKSPEQ SPQLSVLPLVTITPQASGASFEK MKN
18652	49020	A	18761	2	385	WGRGGGRGLLYGRRHFVRRRR RGRSPGESPALTVT*GAV\PSA AFRESAQPGPRSSEAHISTSPKR TDGGRDS*PGLPRSSLTPSLPRP ASFSTSPGRVSAPHRLPRHS/AG PGLSGSS*PQPYSDPT
18653	49021	A	18762	242	422	

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18654	49022	A	18763	2	992	AREKKQKTRRQNKNIPIRQINKT QRICC*QSCLTMTQDFFWPLCQ GHSRGAPCLLVPPGLSLTCAPA QPAARPGVSQLTCAIACTHIQW FPSSCPPSEKNGDTLTV\KTPSA SSSPARIPAATRQGRSPRIPPAP SNEASPAPGRPRVPGAA\PPRFP KPTIQASGADRAVDCGILKLQK S\PARLARPRWPRRPSKRFWSA AGSVEEQPKPPKAP/PAKSPEQS PQLSVLPLATITPQAYGASF MKNLKTRRGGRSRWHFFNVIP QAPSLKWGFQTS DASSAEV FH VDRSLASHKMGPRRPSPLW APPFCEAAAARRQEPGVCIMVE
18655	49023	A	18764	292	348	
18656	49024	A	18765	2	466	LITVVKLLDTMVDTF LQKLVA AGSYQRFTDCYKCFYQLQPAM TQRIYDKFIAQLQTSIREEISDIK EEGNLEAVLNALDKIVEEGKVR KEPA/WQRDTLRRHVQKQEAE NQQLADAVLAGRRQVEELQLQ VQAQQQAWQALHREQRELVA VLREPE
18657	49025	A	18766	2	511	FNMAEASSANLGSGCEEKRHE GSSSESVPPGTTISR VKLLDTMV DTFLQKLVAAGS/YSTPSLGRK CWS\RLPSGGQSVKQAFSWAAC RLPQGRKEEISDIKEEGNLEAVL NALDKIVEEGKVRKEP\AWRPS GIPEKDLHSVMAPYFLQQRDTL RCHVQKQEAENQQLADA
18658	49026	A	18767	224	748	NRPSVGRRAGYHRGGSYQRFT DCYKCFYQLQPA\MTQRIYD\K FIAQLQTSIREEILFDNQKQEGE PRKLSWNALG*KFVGTKGKVR KEPAWRPSGIPEKDLHSVMAP YFLQQRDTLRRHVQKQEAENQ QLADAVLAGRK\QVEELQLQV QAQQQAWQALHREQRELVA VLREPE
18659	49027	A	18768	1	421	

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18660	49028	A	18769	666	1445	AGITTIEAAKRTIQVLHLQAND AQERA\ERSQREFREERRAREPG LRLK*SFLNRRIQ\VEEEL\DR QERLGHLPCKKL*RS*KKLADE SERRY*RLFEN\RALKRLKEKIG TSREIPTQKKLKHICRKEAD\RK YEEV\ARKLGDHLKEDLEPTE\E RA\ELAESRC*EIDEQIRLIDQNL QCLSAEDKYSQKEDKWEEE MK\LTNKLREAET\RAEFAERS VAKLKKTIDDLEDKLKCTKEEH LCTQRM\LDQTL\DLNEM
18661	49029	A	18770	2	158	SAAPGAVPPPEADSTSAGMSRR PCSCALRPPRCSCSASPSAVTAA GRPRPSDSCKEESSTLSVKMKC DFNCNHVHSGCLKLVKPDDIGRL \VSYNP\AYLEGSCKDCIKDYER LSCIGSPIVSPRIVQLETESKRLH NKENQHVVQQT\NSTNEIEALET SRLYEDSGYSSFSLQSG\SEHEE GSLLEENFGDSLQSC\LLQIQSPD QYPNKNLLPVLHFEKVVCSTLK KNAKRNP\KVDREM\LKEI\IARG NFRLQNIIGRKMGLE\CDILSEL FRRGLRHVLATILAQLSDMDLI NVSKVSTTWKKILEDDKGAFQ LYSKAIQ\RV\TENN\NKFSP\HAST REYVMFRTPLASVQKSAAQTS KKDAQTKLSNQG\QKGSTYSR HNEFSEVAKTLKKNESLKACIR CN\SPAKYDCYLQRATCKREGC GFDYCTKCLCNYHTTKDCSDG KLLKASCK\IGPLPGTKKSKKNL *RLHVGWHEPAPLQ\LRPTATPL LLQRQPQRSDSRRAPSTLG

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18662	49030	A	18771	4	1276	RKAASSYVSRMALPIIVKWGG QEYSVTTLSEDDTVLDLKQFLK TLTGVLPERQKLLGLKVKGKP AENDVKLGALKLKPNTKIMMM GTREESLEDVLGPPPDNDVVN DFDIEDE/R*FEVENREENLLKIS RRVKEYKVEILNPPREGKKLLV LDVDYTLFDHRSCAETGVLM RPYLHEFLTSAIEDYDIVIWSA TNMKWIEAKMKVKPLGVIWG KFSEFYSKKNTIMFDDIGRNFL MNPQNGLKIRPFMKAHLNRDK DKELLKLTQYLKEIAKLDDFLD LNHKEYWERPRVRCHIFHGKED RYDPCPMGACCKTVCTTNLA LPALPLGSMKNGQPCRNIGQK GYALTVINSGPQQGLFVRILLG LFIRDFFPAGCGARPFWNEGLM AYFQRRTLVGVMVLVSSSKSFK
18663	49031	C	18772	113	257	
18664	49032	A	18773	143	330	HHGPVPFPRGLIS*HSLHCPCPT PGGKNVFFFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
18665	49033	A	18774	3	432	
18666	49034	C	18775	112	192	
18667	49035	A	18776	3	1015	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQKG\LKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DLF\ESGNMT\QVQVSLLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIGL QMGT\NKCASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQVG\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQ\IM GYTQGAQTQSGQVF\GPGRPDI *TPSTCPQGT\ADGAPSGTGDC PDPGEVPEYPPYYQEEAGY
18668	49036	A	18777	2	110	
18669	49037	A	18778	74	289	

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18670	49038	A	18779	138	2039	GAAMAAAGRLPSSWALFSPLL AGVALLGVGPVPARALHNVT ELFGAEA WGTAAFGDLNSDK QTDLFV/LAGKK*LNRLFGRPE CTRILNPK*RYLSRITVH**QV*S LGAYDGDSQMDVLLTYLPKNY AK\MN*ELSSGDKIKH*ILTI*P YSIGL/LQDEPLIMDFNGDLIPDI FGITNESNQPIILLGGD/CYHGI QH*PLQVKCEFHI/PHAFIDLTE DFTADLFGATLNGTTSTFQFEI WENLDGNFSVSTILEKPQNM VVGQSAFADFDDGDMGSFTC QGCGR*K/CAKRVPSYLVRS GMKQWVPVLQDFSNKGT LWGFVPFVDEQQPTEIPITLHIGDYNM DGYPDALVILKNTSGSNQQAFL LENVPCNNASCEEARMFKVY WGADRPKSN/SKGAMVATFFDI YEDGILDIVVLSKGYTKNDFAI HTLKNNFEADAYFVKVIVLSGL S\SND CPRKITPFGVNQPGTLYH VYNCRCKWVSEKWIRWPNSAQ SAHLALQLPYNVLGFRVGSANF LDHL\SLGIPRPSWRKIFYGKQE WTAIIPNSQL\VIPYPHNVPK LGVPCILYTKLILFWLTAIALIR CLCFQSLAINWHFTLGREKKAG WIEEKRTRKAHRFPFWMAW
18671	49039	A	18780	1	966	
18672	49040	A	18781	1	1035	RPPFPVPGVQKCPLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSVASGREM VVLSVPAEVT/VILLDI\EGTTTP IAFVKG/DILFPYIERKMLK\EYL QTHW\EEEEFQ\QDVSLFEGNK A\EEDAHLDG\AVPIPGKHLGIG V\DD\LQQMI\QAVVDNVCWQM SLDRKTTALK\QLQGH\MWRAA FTAGRMK\AEFFADVPA\VR\K WREAG\MKVYIYSSGSVEAQKL LFGHSTEGDILELVDGHF\DTKI GHKRRRVKVRK\IADSIGCST\NKH FVFWTDVTSRRASAGLREAGCCTLA VV\VRPG\NAGINR*L RKTYYSLITSFQWNYLPSST

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18673	49041	A	18782	1	528	DNELLDYEDDEVETAAGGSMS/ EAPAKKDVKGSYFSIHSSGFRD FLLKPELLRAIVDCGFEH\PSEV\ QHECIPQAILGMDFLCQAKSGM GKTAVFVLATLQQLEPVTGQV SVLVMCHTRELAFQTR*KTRPF WNVTVCPSGEDTRVGKETLL PPPLTAPTPWLPSFASPLLNP
18674	49042	A	18783	207	309	
18675	49043	A	18784	85	348	PPHSALLPFPTPFLPPSQLEIFVD DETKLTLHGLQQYYVKLKDNE KNRKLFDLLDVLEFNQVS*TSS RGMSIGALQL*QKPGY*VHFY
18676	49044	A	18785	1	930	CCCRHTRSPCLVMAENDVDNE LLDYEDDEVETAAGGDGAEAP AKKDVKGSYV\SIHSSGFRD FLLKPELLRAIVDCGFEHPSEVQHE CIPQAILGM\DVLCQAKSGSGER QAVF\VLATLQHPV\TGQGV CAG*CCHTRELAFQISKEYERFS KYPNVKVAVFF\GGLSIKKDE EVLKKNCPAYPSVGTGRILA\A ARNKSLNLKHIKHFILDECCKM L\EQLDM\RRDVQE/IFFRMTPH EKQVM\MFSATLSKEIRPVCRK FMQDVNTLLPSLPPLPARCLLP LALFLRLPCHSSAKKAACAQLG
18677	49045	A	18786	96	1618	LFTPCFHLFCENPSRSPFPSSPAG PVMAENDVDNE\LLDYER*MR WETAAGGDGAEAPAK\KDVKG SYVS/LSHSSGFRD\A\KPELLR A\VD\CGFEHPSEVQHECIPQAI LG\M\DVLCQGKSG\MGKTAVF VLATLQQLEPVTGQVSVLVMC HTRELAFQISKEYERFSKYMPN VKVAVFF\GGLSIKKDEEVLK/R RNCPI\VVGTGRILS/LWVRN KSLNLKHIKHFILDECCKMLEQ LDMRRDVQEIFRMTPEKQV\ MMFQCYLGAKAIRPVCRKF\M QDPMEIFR/VDDTKLTLHGLQ Q\YY\VKLKDNEKNRKLFDLL DVLEFN\QVVIFVKSQ\RCIAL APAY*WEQNFP\A\A\HRGDAP RKERLS\R*SSSKDFPTNEILIG YPTLFGRRHGTSEAGETIAF*FM NMP*GILKTLPCR\VGPEQGRF GHPRGL\A\TFVSDEE*LPRSCD DVQGSALRVKFSELPDEIGHLP PTLEQDTGRRLAHFGNVDRFL
18678	49046	A	18787	1	363	

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18679	49047	A	18788	78	714	GTTEGKRQEAVGYLCVLP LTTL PLVTRLPPQVADTMLPPMALPS VSWMLLSCLILLCQVQGEETQ KELPSPRISCPKGSKAYGSPCYA LFLSPKSWN\ DADLAC\QKRPSE KLVSVLSGAEGSFASLLA\RSIS NSYSYIWIGL\HDPKKG\SEPDG DG*EWSSTDVMNYFAWEKNPS TILNPGHCGSLSRSTGFLKWKD YNCDAK\LPYVCKFKD
18680	49048	A	18789	52	186	QSEVHHGIISYTTGQGENLSEPI WKS WQRSQDL*QENHPEIYSLT
18681	49049	A	18790	666	2732	KQLIKMCYFILL LILSSHIGKD KAIDKNGILVQYWQE*KLVEPF *KAIWPPCMETLNVDTPFPQPV CLGIYPNE*KLSK/CFKP*APKV YFHGCL*Y*NHWEPTETIPPVK GWIK*ILF
18682	49050	A	18791	112	340	
18683	49051	A	18792	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSH\SPMAGGLAG MGGIQNEKETMQSLRDLASY LDRVRGLETENWKLESKIQEH
18684	49052	A	18793	1	994	APSYRA/RLVRSVASVYAGPGS SGSRISMSRSTSFQGGGLGSRSM AA/GMAGGLAGMGGIQNEKET MQSLNDR LASYLDRVRSLEMG NWKLESKIWEHLEKKGQVVRD WGHYFKTIEEDLTQIFTSTVDN TCIILQIDNAHLAADDFRVKYE TEPATCQSVENDIHGLHKVIDD TSVTQLQLETEIEAL\KEALLFL\ KKNHEEES/WRHTVQALEIDL WMKNLEASLENSLK/EGVEAC YTLQMEQLNGILLHLESELAQT WAEQGQQAQEQALPNIKVKL EAEIATYRRLLEDGEDFNFGDA LDSSNSTQTIQKTPTC/RTVDGK VVSETNDTKVL
18685	49053	A	18794	3	377	
18686	49054	B	18795	54	136	
18687	49055	A	18796	149	419	

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18688	49056	A	18797	83	1402	AEKAGGKKGEAPSYRA/RLVRS VASVYAGPGSSGSRISMSRSTSF QGGLGSRMAA/GMAGGLAG MGGIQNEKETMQSLNDRASY LDRVRSLEMGNWKLESKIWEH LEKKGPQVRDWGHYFKTIEED LTQIFTSTVDNTCILQIDNAHL AADDFRVKYETEPATCQSVEN DIHGLHKVIDDTSVTQLQLETEI EAL\KEALLFL\KKNHGEEIKGL SRRQIASSGVDPWRVDAPKSSG PSPKIMGRHPGPKYDEL\ARKR TREE\LAKYSSQ\QIEEST/TQLV TNTSL/GGLELAETNLHRS*TY KRSLEDSTLDSIEKS*KAQAW KKQPLKGSWKAPLRPLPDWSK LQTGILACTFESRAGNKTRARG TSAPGPQEL*GPLLKHKVKAG GLRSPTLPARLLEDAEAL*SLV DPLDSKQLPCNTIQKTTTPPG*V
18689	49057	C	18798	140	283	
18690	49058	A	18799	2	783	VVQFARREKPSSSKVSQRHPCT EAVREVLHGVNQRKSPQRSWET VELQISLKNYDPQEGQSAFSGT RQALSPLPRPKFSCVCPGGTQQ H\CDEA\KARGISPPHGTFEGA* KNLNKE*KNWSKKAGPRKY*L RFFGPQKSLDQSKIPPNPSPGPF K*RAGK\FPPFWFTHNENMGG PKLDEGEVPPIQVFQMKERCLC L\AVAV\GHV\KMTD\DELVYNI HLGCQLSWVSLLKEKNW\QNV\ RALYIKSTHGQSPKRLIFKAHFE
18691	49059	C	18800	239	555	

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18692	49060	A	18801	401	3014	TRASSTMSKSFQQSSLSRDSQG HGRDLSAAGIGLLAAATQSLSM PASLGRMNQGTARLASLMNLG MSSLLNQQGAHSALSSASTSSH NSQSIFNIGSRGPLPLSSQHRGD ADQASNMLASFGLSARDSDELS RYPSDTITPENLRPILLQLKRRR TEEGPTLSYGRDGRSATREPPY RVPRDDWEEKRHFRRDSFDDR GPSLNPVLDYDHGSRSEQESGY DRMDYEDDRLRDGERCRDDSF FGETSHNYHKFDSEYERMGRG PGPLQERSLFEKKRGAPPSSNIE DFHGLLPKGYPHLCSICDLPVH SNKEWSQHNGASHSRRCQLLL EIYPEWNPNDTGHTMGDPFM LQQSTNPAPGILGPPPSFHLGG PAVGPRGNLGAGNGNLQGPRH MQKGRVETSRV\HIMGFSTE GKTLRYQLLQLVEPFGVHFKFI *FLNKNLLRAFIEMATTE\DCFK AAV\DY\TTTPA\LVFGKPV RV HLSQKYKRIKKPEGKPDQKFDQ KQELGRVIHLSNLP HSGYSDSA VLKLAEPYGKIKNYILMRMKS QAFIEMETREDAMAMVD\HCL KKALWFQGRVCVKVDLSEKYK KLVLRIPNRGIDLLKKDKSRKR SYSPDGKESPSDKKSKTDGSQE AERST\EGKEQEEKSGEDGEKD TKDDQTEQEPNMLLESEDELLV DEEEAAALL\ESGQFSGETSTD
18693	49061	A	18802	3	1013	NCRAAWRAKLEGCLSLRRNAC QCFLIWTQTPDREQSYSLDQLP REVLNQEEKSISIWDIYLHLEM GNGLSDQTSILSNLPSFQSFHIVI \GLDCAWKRQLSYTRLQFQLN L*NTVPYPKGFNTEKI*/RVTLG NSKTV\TFHF\WDVGGQEKLRP LWKSYTRCTDGIVFVVDSDVDV ERMEEAKTELHKITRISANRGV PVLIVAN\KQDLRNSLS\IEIK LLAMGELSSSTPWHLQPTCAIIG DGLKEGLEKL\HDM\IKRRKML RPTRKRKDEYQFPNIICVGVGF LWSDFDKNRRRVSTAGVCLSAPP WMLLKLCFVEQFRCPTRVALW KMSKCSAS
18694	49062	A	18803	3	1103	
18695	49063	B	18804	34	734	
18696	49064	A	18805	1	1741	

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18697	49065	A	18806	6460	6635	RTSTERSHLKTRYQRTSCSSNR* LNSSSSKTSFRCSLTTSFWRHT IFNMLLINRRL
18698	49066	A	18807	5567	5853	IGILEA*LLRNLPNDSIKALVDA *YKSLLSAVERCSFMVLFGEPM NKPPLAILRIQSGVNRPPVISIM ALIGPLVTPSASTYSGVTNADLS SATK
18699	49067	A	18808	664	992	SCADHGYHRGNSSNNDNLIP KQTNRDCLNNGHQNHSCNG/D *PQPQR**QLTLQNLMQHQ*KQ QYPLPQHQQQE*RTR
18700	49068	A	18809	3	1698	
18701	49069	B	18810	227	883	
18702	49070	A	18811	180	373	PDTLRSILPMLLEQLFCRTFGLL SP**RDTSLHLGHKTEQHT*LV MGSWFYLLASQPRCCYAC
18703	49071	A	18812	495	701	
18704	49072	A	18813	138	418	AYRLLCLVYSEGFYMHLEFQ NRLYHQLVF*GRLWHFW\KSIK RFSIY*FFWYRW*YICKLNKGR LQDVIGVINT*CHFLS*GLH*TIP GIHRL
18705	49073	C	18814	62	175	
18706	49074	A	18815	644	828	
18707	49075	A	18816	1	1107	
18708	49076	B	18817	84	342	
18709	49077	A	18818	3	1399	
18710	49078	B	18819	1	1377	
18711	49079	A	18820	1	546	
18712	49080	A	18821	855	1099	VTLYSEYQHPSVREYGLYLTSH RIEPLCVHRTL*PVLLSMQPSV LEYEQQGYEAEY*LQEECHH QRTSSL*DLLKQLLQ
18713	49081	A	18822	1	1680	
18714	49082	A	18823	1	3951	
18715	49083	A	18824	2	6446	
18716	49084	A	18825	2497	21785	SSYPFTKQSSTNNFVFDGNELF NSRDRLSQRLFYILQSSVHLINR Q/LEGYVQHHLNLAEI*HHGLG KDAYIAAMYNNDDGATFQMEI GGIHTNAALAAGDKLQCIWRY LDVNGNAPAAENEFVVSYES FGTSNFSVKCKGMLPGKFIGCD AFYGKYLQTDGPIKQVDSVKW FTNLTVSGSRKQLGQRKYPQ VVMGMGMTSGFDDGYNLTP RQVKMAYGLGYRDWWTTYIG MSHYWKGLTAFQDKETGELI
18717	49085	A	18826	31	479	

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18718	49086	A	18827	255	1002	SQFSLSQVLVDSAEEGSLAAAA ELAAQKREQRLRKFRELHLMR NEARKLHHQEVEEDKRLKLP ANWEAKKARLEWELKEEEKK KECAARGEDYEKVKLLEISAED AERWERKKKRKNPDLGF\SDY AAAQLRQYHPV*PKQIKP\DME TY\ERLREKHG\EEFFPTSNSLLH G\THVAFHRGKFDRV\LRSGKN QFEKRD/KF*ARRRPYNDDADI D\YINERNAQFNKKAERFY\GK YTAEIKQNLERGTA V
18719	49087	C	18828	91	225	
18720	49088	A	18829	3	212	
18721	49089	A	18830	88	239	
18722	49090	A	18831	865	1898	QQQQQQQHRRYPRRRSPRAWC SHPRSPLLFLPSLAPWPDQLTEE QIAEFKEAFSLFDKDG\DGTTT KEL\GTVM\RSLGQEPNKKLE\A QDMINESGMLMG\NGTHLTFPR IF*LMMARKMKD\TDSEEGN/LR EAFRV\FAKDGNGYISAAELR\H VMTNLGEKTTRF/KK\VDEMIRE A\DIDGDGQVNYEEFVQMMTG KMEDLTFQLPFSPPLEESNWNL LLTFLQKKEKKKKVHLFHSCFL YSKTECQKYLLVH\THQNLHVL VGGPCPLKDQATHQFYNTCT NLNDNGLLKRSILLMINTLFG LASFHACSFDDWSTSQGLWYL KLENGKNQISKPIPNGLVHFV
18723	49091	A	18832	1	330	WVVLKNCVGVGLLIAT*MWFI SNKYLVQRQSRDYDVEWGYAF DVHLNAFYPLLVLHFIQLFFIN PLPFLKNTVILLYPFAPLILLYGL SLALGWNFTHTLCSFYKYRVK
18724	49092	A	18833	1	534	VPSNSVNSLVQGNGLNSRDA ARH/TAGAKRYKYLRRLFRFRQ MDFEFAAWQMLYLFTSPQRVY RNFHYRKQTKDQWARDPAFL VLLSIWLCVSTIGFGFVLDMGF FETIKLLLWVVLIDCVGVGLLIA TLM/WHCHFVKKQVILLYPFAP LILLYGLSLALGWNFTHTLCSF YKYRVK
18725	49093	C	18834	295	570	

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18726	49094	A	18835	418	1567	SFTLKNCVLQRVSSILPSNTAEV DFPSWTTQSDWQQTRAQVLLQ ARARAAALRLVLIILRHDGASPP MRTRLSPATLATGSGASEAPV SGDRKPAATTSGGPRRKMLPST SVNSLVQGNQVLSNRDAARHT AGAKRYKYLR\RLFRFRQMDFE FAAWQ\MLYLL\TSP*RVYRNF H\YRKQTKDQWAR\DDPAFLGF PFKYSGFCVSTIGFG\FVLDMG\ FFETIKLLLWVGLID\CVGVGLL IATL\MW\FISNKYLVKRQSRD YDVEWGYAF\DVHLNAFYPLL VILHFIQLFFINHVNLTDTFIGY LVGNTL\WL\WAVGYIILR*LSL GYSVGLLFFSSIAHF*KNT\VILL YPFA/PL*FLPPTGFPLALGWNF THTLCSFYKYRVK
18727	49095	A	18836	1	888	MPGLLLLGRSQNLKQQAIEILCG LGLALVISAVKPLSKKFMLPNP TSMKPESDGIYSINLKRTWEKL LLAGHAIVVIENSADVSVISSRN TGQKAMLKFAAATGATPIAGH FTPGTF/TNQIQAAYWEPRLLV VSDPRADHQSLTEASCVNPPAI ALCNTDSPLCH\VDIAITCENKKG APSVGQMW*MLAWEVLHMRG TISCN/SPWEVMSNLYFYRDPEE TEKEEQAAAEKAVTKKEFQGGK WTVSAPEFTVTQPEVADWSEG MQICNLGKAQQGQLSSDAEDD FWSLESLDGYSHTVTFR
18728	49096	A	18837	74	848	REIFINVRSLLMACFVKEEDVL KFLAARNP/HVGGTNLDFQME QYIYIRKSDGIYIIRLKRTWEKL LLAARAIVAIENPADVSVISSRN TGQRAVLKFAAATGATPIAGRF TPGFTTNQIQAAFREPRLLVVT\ DPRADHQPLTEASYVNLPTIAL CNTDSPLRYVDIAIPCENKGAH SVGLMWWMLAREVLRMRGTI SREHPWEVMPDLYFYRDPEEIE KEEQAAAEKAVTKKEEFQGEWT APAPEFTATQPEVADWSEG
18729	49097	A	18838	72	528	DEACGVCCYSPGASPMPP*GRT RKEGRTAGKVRPKERPKTPVN\ KSGGQGPKRKNWSKRQKFRDK L\NNLVLFDKA\TYDKLCKEVP N\YKLITPSLWSPERL\KIRGSLA KGKPFQEAP*VKGLI/RNLVSKH RAPSNFTPGNYQGWEDAPSL

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18730	49098	B	18839	6	125	
18731	49099	B	18840	249	291	
18732	49100	A	18841	128	669	RPGHAQTLGSPSLALGMAGQF RSYVWDPLLILSQIVLMQTVYY GSLGLWLA\VVDGLLRISPSLD QMFDAILGFS/TPFQGRLSMM SFILNALTCALGFAVISSGEEKQ CLDFTVTVHFFHLLGLLGSNSS PFSPSGG*TLVGLGPKPVVALH SLAVIGEYLCMRTELKEIPLNSA
18733	49101	A	18842	1	818	MAELTVMRFHTEPQGSEGLRLP RISGSKPKQMHVTWLEPLENGI CNGNTGNAQLLIPPGVIFHKYP SHYVTAMLKSLKWPLQTE LTS SSGQALWGLVGGGSPHRQAST EKL FSEKVPKTAENFPCELS CF HGENGFGL*GVPCFHRLFPRVY AVRGGDFHTAINGT\GGKSHPM GKKFEG*ETSSLKHTG\PGDLVP WQNAGPNTNGSPVFLTSTCTAQ ELSGLDGKPCGV LAKVKE\GM NIVEAMER\FGSR\NGKTSKKITI A\DCGTTPNKV
18734	49102	A	18843	4	454	
18735	49103	A	18844	1	978	MRWACDFTKLLSSTWTLIQYPE NAMIIARWALLADCPEKTKAL RTTEDGIVDAANFEQFLQERIK VNGKVGNLGGGVVTIEKSKSKI TVTSKG\PFNSM*I*GSASSFVEK KRLLF*KLLSSTWTLIQYPENA MIIARWALLADCPEKTKALRTT EDGIVDAANFEQFLQERIKVNG KVGNLGGGVVTIEKSKSKITVT SKGHFQFYVNLRI SF L ICGKEKA VGILEEIVLNLLIIFSSIDILTVKG TCSGCERGF FLEIYDEVEDSSYD NHLKDDDPKREGPGAEQALST PPCCPLEKRPINDQTLIISWSGST NVIEEAGRHSVVQEGWGALGV LRTTLPSLPQITGGAGFVGSHLT DKLMMDGHEVTVVDNFFTGR KRNVEHWIGHENFELINH DVVE PLYIEGRAENQLSHTVPGPVDL SDRIVNGYFLSL

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18736	49104	A	18845	167	1440	RDIWLSASAAAMVPVRKLV/AE GGQKTKQVLRFTLGCTHPIEDG IIDAANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG\ PFNSM*I*GSASSFVEKKRLLEF *KAENLSSKNWNKTRMPTFTTL TQVAPNPITGYTSKGKKISTLKR YLAFLRCCHGAREKACGEGG QKTKQVLRFTLGCTHPIEDGIID AANFEQFLQERIKVNGKVGNL GGGVVTIEKSKSKITVTSKGHF QFYVNLRIISFLICGKEKAVGILE EIVLNLLIIFSSIDILTVKGTCSSC ERGFFLEICDEVEDSSYDNHLK DEDPKREECRKRDAYAPLKDQ GNAEKRRHNVRKSWPLLSAKL LKIRTNLTGTEEAELHANHIQQ VPIKCLSYKLTERKNGTQKHLH YALILHVKCDRRETSKFTKFG THPLTALFVPRAWDGPPSALPE SELAVFLVAYEGNTLLHLFLSG AEQRGNSSLKERAGRARFSHQ KLNEQTIPDNLTSSVDLQSSF SAVHPNSQPTVWVDMPAHPLS QYLVPARKTVLPIWYGNSCPD VIFGSLSDSKLSEGKEFALPLKF
18737	49105	C	18846	713	831	
18738	49106	A	18847	2	303	
18739	49107	A	18848	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSPRPWF G
18740	49108	A	18849	229	359	MKWVYCSVTGMGKGQHRMP\ SKG*GWVQRYNRDGIPSPRVLE LF

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18741	49109	A	18850	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEGI REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAAANSPPGSG PGTLPGLPAPIGVNGFGPLTPQT NGQPAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRIISYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
18742	49110	A	18851	231	416	
18743	49111	B	18852	184	594	

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18744	49112	A	18853	247	2296	PVYLSIFMSCVGENGGSHIENW HSILRNGLVNASYTKLQDIKQ FWNDDDDSEGDNESEEFYGVQ GSCAADLYRHPQLDADIEAVK EIYSENSVSIREYGTIDVDIAL HIN\ISFL\DEEVSTAWKVL RTE P\IVLRRLRFF\LSQYLDGPDPS\IE VFQPSNKEGFGGLQLKKILGM FTSQQWKHL\SNDFLKTQQEKR HSWFK\ASG\TIKKFRAG\LQHSF SPIPKS\PSFPYS*Q\DSMAGKGK LG\PEL RVGRMLNRSISCTMK NPKVEVFGYPPSPQAGLLCPQH VGLPPPARTSPLVSGHCKNIPTL EYGFLVQIMKYAEQRIPTLNEY CVVCDEQHVFQNGSMLKPAVC TREL CVFSFYTLG\MSGAAEE VATGAEVVDLLVAMCRAALES PRKSIIFEPYPSVVDPTDPKTLAF NP\KKKNYE\RLQKAL\DSVMS\A REMTQGS\YLEIKKQMDKVWIP L\AHPLLQWISSN\RSHIVKLPL SRQLKFMHTSHQFLLSSPPAK EARFRTAKKLYGSTFAFHGSHI E\N\HSIL/RGNGLVQWHSYTK LQLHGAA YGKGIYLSPISSISFG YSGMGKGQHRMPSKDEL VQR YNRMNTIPQTRSIQS\RFLQSRN LNCIALC\EVITSKDLQK\HGEH LGCCPVFRPMSCTRFLPL*YED G\QVGDAQHYIPHGPQRVHERE
18745	49113	C	18854	122	486	
18746	49114	A	18855	1	535	KNAAGNFISPT/ERLSPNAWKTI TDIVLNGTAFVTFLSITTIYAET GSGFVVPSASAKAGVEAMSKS LAAEWGKYGMRFNVIQPGPIK TKGAFSRLDPTGTFEKEMIGRIP CGRLGTVEELANLAAFLCSDY ASWINGAVIKFDGGEEVLISGEF NDLRKVTKEQWDTIEELIRKTK
18747	49115	A	18856	3	356	
18748	49116	A	18857	1	1581	

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18749	49117	A	18858	2	1242	RRLGPSRPIPRRPRQRFPREL CSFCPAPCGPTACGGFRPEFWRI NMKLPKVVFTLGSRLPCGLAP RRFFSYGTKILYQNTALQSKFF SPLQKAMLPPNSFQGVAFITG GGTGLGK\GMTTLLSSLGAQCV IASRK\MDVLKATAEQISFSNW EIKVHAIQCDVRDPDMVQNTV SELIKVAGHPNIVINNAAGNFIS PTERLSP*CWKNQ/ITNIV*NGT AFVTLEMKGHLIKAQKGAFL\ SITT\IYA\ETGSGFCRYPASAAQ SRVWEAHGASLLQLEWG*NM GLRPIVDSNQGPICK\GALYPS GPPTGTGFEKKMIGQKFCGSP WGLVEELRKSLPAF\LCSDYA\S W\INGAVIKFD\GGEEVLISGDF\ NDLRKVT\KEQWDTIEELIRKT KRFLRPLWPSSWLQKRE
18750	49118	A	18859	8	432	NSKLPPVVTSSQMRMFY/DPQT DQHMKI\FPEQLPLDEFLQKTD KDPANYILHAVLVHSGDNHGG HYVVYLNPKGDGKWKCFDDD VVSRTKEEAIEHNYGGHDDD LSVRHCTNAYMLVYIRESKLSE VLQAVTDHDIPQQL
18751	49119	A	18860	1	211	
18752	49120	A	18861	1	242	
18753	49121	A	18862	3	733	LVHSRDNHGRHYVVYLNPKGD GKWCKFDDDVVS/QLVERL*EE KRINAQKVDR\RQEVHLYMQA QVASEDQFCGHQGNMYDEE KVKYTVFKVLKNSSLAEFVQN LSQIMEFPQDQIQLWPMQARSN GTRPAMLDNEADGNKAMIEV SDNENSWTIFLETVDLELAASG VTLPKFDAHDVMFFLKMYDP KMRSLSNYCGHIYTPISCEIRDLL PVMCNRAGFIQDTSILLYEEVK LNLTERIQD
18754	49122	A	18863	261	659	KHLFYLFIT*EITLYPDKHGCVR DLLEECKKAVELGEKASGKLR LLEIVSYKIIGVHQEDELLECLS PATSRTRFRIEIPDLLLEECKKA VELGEKASGKLRLLLEIVSYKIIG VHQEDELLECLSPATSRTRF
18755	49123	A	18864	107	407	CVFFADTSWRSEATFQFTVERF SRLSESVLSPPCFVRNLPWKIM VMPRFYFDRPHQK\SVGFFLQR NAESDSTEDSLNDATTNPHIVA FHYWKPNNLSLV

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18756	49124	A	18865	2	3698	YVRVSLPPPPAAGRPGAAVAD DAREEEEEAAPPPPPPPRLAA ARPPGSQPRPPAAGEAQAAD MNHQQQQQQKAGEQQLSEPE DMEMEAGDTDDPPRITQNPVIN GNVALSDGHNTAEEDMEDDTS WRSEATFQFTVERFSRLSESVLS PPCFVRNLPWKIMVMPRFYPDR PHQK\SVGFFLQ\CNAESDSTSW SCHAQAVLKIINYRDDEKSFSSR RISHLFFHKENDWGFNFMAW SEVTDPEKGFIDDD
18757	49125	A	18866	16	450	
18758	49126	A	18867	3	26	QSGHSMDMRVPAQLLGLLLLR LRGARCDIQMTQSPSSLASVG DRVITICRASLDISRWLAWFQL KPG\EVPKLLIYAASLTQSGVPS RFSGSGSGTDFTLTISLQSEDIA MYYCQQYNW/SSAPYTFGP\G TKVEIKTKLWAA\PSVLHLPGPS DEAVENLGTAFCLCALLEKTSN PQSRPKSTSGRVD\NALPNGGK LPQGECSQKQD*TAWT
18759	49127	A	18868	3	694	
18760	49128	A	18869	47	1712	FPTKMAAVGRVGSFGSSPPGLS STYTGGPLGNEIASGNGGAAAG DDEDGQNLWSCILSEVSTRSR/S KLPAG*NVLLLGEDGAGKTSLI RKIQGIEEYKKGRGLELYL/N VHE*MTGNDQTRCN\WILDG DLYHKGLLKFSLDVSLKDTL VMLVVDMSKPWTALDSLQKW ASVVREHVDKLIKIPPEMKQM EQKLIREF\QEYVERGEDFPASP QRRNTASQEDKDDSVVLPLGA DTLTHNLGIPVLVVCTKCAIS VLEKEHDYRDEHDFDFFQSHIRK FCLRYGAALIYTSVKENKNIDL VYKYIVQKLYGFPYKIPAVVVE KDAVFIPAGW\DNDDKIG\ILH\E NFQTFKRQEDNFWKDIIKPPV RKVFVHEKEIMAEDD\QVFLMKV \QSLLSKSKPP/TTEAGRPVDA\S PKESQGGSPNTKIESVSS*CCQ ACHPIPCWGQKKIDPNMESWE LTSGRAFLGKFSFNSFV*VKRL GSPRRPLVVS GG*PCRVGLGGG SSG\LPP\STKKVQAYKPVLDV\ HAELDRI\TR*PV\TVSPTTPTS\

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18761	49129	A	18870	3	885	LVCLVRELLGPRRFFLKVFFLPT FPG\VPAPVLTATLPFFHPEGRL YQVE\YAFKA\I*PGGPLPSLAV RGK\DWAVIV\TQKKST*PNYL DSS\TVTSLFPR*LKNIW\CVMT GMTS*PADSQ\QRAR\YEA\AN WKIQSMGYEIPVD\MLCKKNCP IFLQVYHTEMLKMKASLRC\CM IFNWVIDEEQGSPRYIRC\DPAG YYCGV*KPTASGS*TKLRSTGF LEKKKCKKKFD\WTF*TRQWET AINTLPCLTVPIQLDFKTFQEIEV GVVTVENPKF\RILT\EAIDAQL VAPSKRRD
18762	49130	A	18871	1	471	
18763	49131	A	18872	1	1524	
18764	49132	A	18873	2	719	RPQRAGPVRRAGVMALLDLAL EGMAVFGFVLFLVLWLMHFM AIIYTRLHLNKKATDKQPYSKL PGVSLKPLKGVDPNLINLET FFELDYPKPLFFSVAPMKRIEKT QM**P*CSTY*YEVLLCVQDHD DPAIDVCKKLLGKYPNV DARLF IGGKKVGINPKINNLMPGYEVA KYDLIWICDSGIRGTMEMPMSL EQSYDPNVRDPIYRNNGDADG QHLVLHDFYQQGSGPKCSLINA
18765	49133	A	18874	200	370	
18766	49134	B	18875	323	448	
18767	49135	A	18876	2	421	FVGPGPGDPPPSETHKL VVVGG GGVGKSALTIQFIQ/ILDTAGQE EFGAMREQYMRAGHGFLLVFA INDRQSFNEVGKLFTQILRVKD RDDFPVVLVGNKADLESQRQV PRSEASAFGASHHVAYFEASAK LRLNVDEAFE
18768	49136	A	18877	2	236	
18769	49137	A	18878	1	763	MTPHSALRARGKGGGTGGGSE GSSSGGDMSSGAASGTGRGRPR GGGPGPGDPPPSETHKL VVVGG GGVGKSALTIQFIQSYFVSDYD PTIEDSYTKICSVDGIPARLDILD PAG\QEEFGAMREQYMRAG/HT GFLLVFAINDRQEFSTRWGKLF HADFCGFKDRD\DFP\VVVLVGN KAD\LESQRQVPRSEASAFGAS\ HHVAYF\EPSAKMRF\NVDEGF* RSWCGVVREIPRNKELPPSPPK CPPGRMGGGCPCVLL

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18770	49138	A	18879	2	403	RFLARRTNSTFNQVVLKRLFMS RTNRPPLSLSRMIRKMKLPGRE NKTA VVVGTITDDVRVQEVPK LKVCALRVTSRARSRLRAGGK ILTF/DEVYRHF GKAPGTPHSHT KPYVRSKGRKFERARGRRASR GYKN
18771	49139	A	18880	1	1006	PKLR*PEPSRNQVLLTRFQIAVH F/LLSRLQLQFFPRPARSRAFLSRK PKPGPGKKPMALIVEFIGELPTG VHARPPSHVETLCNTFSSQIEW HNLRTDRKGNAKSALALIGTDT LAGDNCQLLISGADEQEAHQRL SQWLRDEFPHCDAPLAEVKS ELEPLPVSLTNLNPQIIRARTVY SGRAGGIQTPISSLDLNLGNLP AAKGVDAEQSALENGTLVLK NIEFRLLDSGATSAILEAHRSL AGDTSREHLLPVGQCANAASS TNHPFVTKKRQQCFVFRQLA NGRNDSGWQITHAFWFRFHQH SRIMKYL YGFTARLKEHQPKLR
18772	49140	A	18881	1	716	VCCEFCRAERRHHGEWTIRHN K\DRKSGSGARDPKEPGFLL*RC CVKLYRFSGPPEPNSNIQRLW LKRLFMS\RT\NRPPSVFPSRDES GKMKASLARGKQDRPVVVG PLT*LMLRVSGRVPKTERYVAL RRGPSPGPQAAFLQGQGGKIPS LFDQAWPLGLPLKGLLALVPGS SGSLGKGAREGGTRQFSKAP KETPQKPHQNPYVRISKGRKFE RARGPTGPARGYKKLTLSYSLS
18773	49141	A	18882	3	168	
18774	49142	A	18883	23	2669	
18775	49143	A	18884	279	396	
18776	49144	C	18885	960	1250	
18777	49145	A	18886	52	925	EVLEPRLGVFSNGCFQGLSSVM ALGLKCFRMVHPTFRNYLAASI RPVSEVTLKTVHERQHGHQRY MAYSAVPVRHFATKKAKAKG KGQSQTRVNINAALVEDIINLEE VNEEMKSVIEALQG*FQ*GLSI* GPHQDPIDKIAVVTA*REALL*T RFSQISMKSPQLNFG*IWASFPE CTAAAIKAIRESGMNLNPEV\EG TLIRVPHSPK*PESTEKCWVKL GQTEHQGPKTLLREGFRTQLN EQAGRNPKN/NSLQEDTIRLTEK QISQMADDTVAEL YRH LAVKT KELLG

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18778	49146	A	18887	2	389	DSGSHCHAPPTTARRAFPIPGS KSNMATLKDQLIYNLLKEEHTP QNKITAVRVGADGMACAITIL M/KDYNVTANSKLVIITGGARQ QQGESRLNLVQRNVNIFKFIIPN VAKYSPNCKLLIRSNPVDI
18779	49147	B	18888	217	423	
18780	49148	A	18889	27	1217	ARRPTRPPDLIATRRPRPARRCI SRFPFGSKSNYWQPLKDQLIYN LLKEEQTP\QNKITVVGVGAVG MACAISILMKDLADE\LALVDVI EDKLKG\EMMDLQHGKPFSSFR NTKVLSSGKRL*MLANSKAGS FITGWGHRQQEGKKAVALILVQ AVNVNIFKFIIP\NVVKYSPNCK LLIVSNPVDILTYVAWK\USGFP KNRVIG\SGCNL\DSA\RFRIYLM G\ERLGSSPH*ACHGWGPWGEH GRFPVLPVMGVGLNVAGVSLE DFWHPDFRTDKD*E\QWKE\VH K\QVVE\SAYEVIKLG\GYTSLG LIGLSCKPD\LAEL\SIMESFRRV HPS/SSHHGLKGLYGKRMNVS LSVPCILGQNGIS\DLVKG\TLTS EGRGPVGSKSADNNSWGSTKK
18781	49149	A	18890	1	264	
18782	49150	A	18891	3	736	
18783	49151	A	18892	81	1065	GKGPVAAFIDQSNIFLTDPKIFL GQWREPKMPLLLLGETEPLKL ERDCRSPVDPWAAASPDALA CLCHCQDLSSGAFPNRGVLGG VLFPTVEMVIKVFVATSSGSIAI RKKQQEVVGFLEANKIDFKELD IAGDEDNRRWMRENVS*REKP Q\NGIPLPSQ\NFNEE\QYCG\DFD SFFSAKKENIIYSF\LGWAPLPDS KGSEKAEEG\GETEAQKEGSED VGNLPEAQEKNEEEGETATEET \EEIAMEGAEGEAEETAEGE EEPGEDEDFLGLFMLHFFHFSQ KMEAMKQHSNVLSTNQTELEY FGLKPAHPRVTEIMLPDLIR
18784	49152	A	18893	19	445	

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18785	49153	A	18894	1	622	QAAWILKARALTEMVYIDEIDV DQEGIAEMMLDENAI AQVPRP GTSLKLPGTNQTGGPSQAVRP TSHSEKPITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGTASMLTSPDGPFIN*SRL NLTKYSQKPKMAKALPEYIFHH ENDVKTALELAALSTEHSQYK DWWWKVQIEKRYRYRLGMYRE AEKQLISAMKQ
18786	49154	A	18895	1	1651	MKAEICKSRTVKDWHNHQKLG EGNKTDSPQPSEGNTANTLIL DFWPLEMIACCWETFPQRLTAE LFMNPTRWHGYKNQSVGAL RAPLGQGPSRRGLPGRVGRRL FTRPPLSWSAGPSLAAPAAMS SEMEPLLLAWSYFRRRKFLCA DLCTQMLEKSPYDQEPDPELPV HQA AWILKARALTEMVYIDEID VDQEGIAEMMLDENAI A/PSSTP ITQAGRPITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGRLGMYREAEKQFKSAL KQEMVDFTFLYLAKVYVSLDQ PVTALNLFKQGLDKFPGEV TLL CGIARIYEEMNNMSSAAEYYKE VLKQDNTHVEAIACIGSNHFYS DQPEIALRFYRRLQMGYINGQ LFNNLGLCCFYAQQYDMTLTS FERALSLAENEEEAADVWYNL GHVAVGIGDTNLAHQCLRLAV VNSNNHAEAYNNLAVLGDAEG /RHVEQARALLQTASSISTPYV* TAFLILQQSLIRFGDLQRSYVAA QKSEAAFPDHVDTQHLLIKQLRQ HFAML
18787	49155	A	18896	2	295	
18788	49156	A	18897	1	4470	MLGLGLLLRLRQGSHAVTRCRP LPVRREGRRDGSPWRSVVCRY CRCSRQTGASVTTVSLPSSSSSP GLDPRGPRQASVKKPAEANPV LRPLVRHGTPYRDSEEGKREGL SRLRAVCRRAGPRGRGSFSPRD ARASRLHFLVAAVTTGAASRR QRGARVRQSPSSSRRRAKRLRE CERRSLHAPPAMDASYDGTEV TVVMEEIEEAYCYTSPGPPKKK KKYKIHGEKTKKPRSA YLLYY YDIYLVQQLPHLPQS

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18789	49157	A	18898	89	810	QRRSGCVLRMTIEWETAA\PAG GQRTDPDIKALWGS GAPDDVAR SMNISLQ\DYIAS*RRKLCPSYLP \HSCQGGYAAKNLSRKAQ\CPI VER\LTNSPMMMHRPQQPARK LMTVRIVQA\HAFEIITPCSQAE NPL\QVLGEPPSINSQ\PREDSHT HLGAAGTVRRQAVDV\SPLRRV EPGPFVWACCTRRLVKGLAFPG TFKTIG*VAWAD\ELI\NACQGA PSNSYCL*EEGRVAFLEHVAKS NR
18790	49158	A	18899	1	365	DTHFK/DSHRTSTAHL\LSLQ GPSPNPLPGVPIS\GMGLGPRG EGRANPIPTVLKRDQEGLYRS APQPRVTHFPAWDTRAVAGRE RPPRVATLSWREERRREEKDRA WERDLRTYMNLEF
18791	49159	A	18900	203	427	
18792	49160	A	18901	95	482	ALQSPKLWGYFSGRKVFLNYFF SSQQVSEAVVATGSPRAWLTC LILPLPGIIFSVLPKAMSRPLLITF TPATDPSDLWKDGQQQPQPEK PESTL\DGAAKLFYEALIGDES SAPDSQRSQTEPARERKR
18793	49161	A	18902	348	1660	GVTHLFLFGKRKLNRNGIAGRIK GPGWIFFSYCRSLRLWLLTGSP LSLALPCLILPLPGIIFLKFSQKAI VPGPLLITFTPATDPSDLWK\DG QQQPQ\PEKPESTL\DGAAARAF YE\ALI\GDESSAPDSQRSQT*T WPEERKRKKRGLLKAPAAEAL AEG\ASGRPVGGRSLEADDPMT YRILTSAQEGD\LP*LMRLLEPH EAGGAGGNINARDAFWWTPL MCAARAGQGAAVS YLLGPGVA AWVGVCELSGRDAAQLAEAA GFPEVARMVRESHGETRSPENR SPTPSLQYCENC DTHFQD\SNHR \TSTVHLLSLSQGPQPQLPLGV PISTPRF*ILLGGVGSPGMGLG PRGEGRANPHPQLILK*GPRKG LG\YKISTPSPEVTHFSPFGIPRA VAGRERPP\RVATLNWKE/ERR RREEKDRAWERDLRTYMNLEF
18794	49162	C	18903	135	299	

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18795	49163	A	18904	3	2074	ERSRPVALRAAVPRMNPSTPSY PTASLYVGDLPDVTEAMLYE KFSPAGPILSIRICRDLITSGSSN YAYVNFQHTKDAEHALDTMNF DVIKGGKPVIMWSQRDP SLRKS GVGNIFVKNL DKSINN KALYDT VSAFGNTLSCKV VCDENGSKG YGFVHFETH\EA\AERAIEKMNG ML\LNDRKVFVGRFKSRKERE ELGARAKEFT\NVYIKNFGEDM D\DGRLK\DLFGKF GPALKCEK LMTDESGKSKGFGFVS FERHE DAQKAVDEMNGKELNGKQIY VGRAQKKV\ERQTELKRKFEQ MKQDRITRYQGVNL\YVKNLD DG\IDDE\RLRKEFSPFGTIQLVP KVM DGG LVA AKGLGFVCFSSP E\EATKAVTEMNF\ RIVATEPL\Y VALA\QRKEERQAHLTNQYYG RGM\ASVTEAVPNP\IQLPLGQ APPFRFTFMGRFSHRFRNRA\AY YP\PSQIAQTKTKFLRW TGQGA RT\HPF\QNMPGCYPAQLAPRPP I*GTM\RPASSQ\VPR\VMPTQR\ VANTSNTDKWVPRSCSLQAAA AYVL\RPAPFPQYKYAAGVRNS \QQHL\NAQPQVTMQQPCCSMV PRVQGT LWTCLPMVGHLP PPSR SKSQMLGW NGLFPSYSKPMHP YSLLVKSLG\MLLEIDNSEL\ LH ML\ESP\ESLPF*RVDEAVAGTTS PPQAKRGLAQKAG*QVPTGVP
18796	49164	A	18905	1	988	MAEDGEAEFHFAALYISGQW PRLRADTDLQRLGSSAMAPSRK FFVGGN\WKMNGR\KRRLGELI GTLNAAKVPADTEVV CAPPTA YIDFARQK\LDPKIAVAAQNCY K\TN\GAFTGEISPG\MIKDCGQ PWVVLGHSERRHVF\GESDEL\A GQKVA\HALAEG\GVIRLHLG RS*DERGSLGIT\EKVVFE\QTKV IRR*T*KDWKQ/VVVLGLMSPV WGLWLLARLATPQQA\QEVHR RSSRGWL\KSNVS\DAVASEPPV TIYG\GSV\TGATLQ RSLAKPSP DVDGLPLWGGASLQARN SWDI IQCHNNEPPSHLSLPLRCQAQG LKQTQKPK

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18797	49165	A	18906	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSR AKAVRALKNNS
18798	49166	A	18907	1	360	
18799	49167	A	18908	52	513	QLGPHGHRQGGPAVPHPRG LVPLPALLPSGPRRGRTQAPR HSGPAL*GHPASDTYIVFGEAKI EDLSQQAQLAAAEKFKVQGEA VSNIQD\NTQTPTVQEESEEEV DETGVVEVKDIELVMSQANVSR AKAVRALKNNSNDIVNAIMEL
18800	49168	A	18909	1	422	RSLCQTGLRQ/VTG/VTKVITGN LENLFVI/TKPDVYKSPASDTYI VFGEAKIEDLSQQAQLAAAEKF KVQGEAVSNIQENTQTPTVQEE SEEEVDETGVVEVKDIELVMSQ ANVSRAKAVRALKNNSNDIVN AIMVSVQAFVP
18801	49169	B	18910	427	529	
18802	49170	A	18911	122	252	
18803	49171	A	18912	44	189	SKLDYKSSKRHRKPVSNFITSF QIWD*FLFFF*LKCQLQPRVFSQ PN
18804	49172	A	18913	2	609	PFLPEAHLGNQKCQNCNSTSGI CRVSVKVCPPWVHAKLCAPT LMSRDVTLDPAPVKKPCGEGG AKKKKQVLKFTLADCTHP\VED G\IMDAAQF*ASFCKERIK\NG KAGNL\GGGVVDPSKGARGKIT VT\SEVPFSKRVF*KYL/TPKKY LKKNLNR*PGLPRSLPNQPK LPNFRYFQINQGRKEGGRGF KFPLSGKILL
18805	49173	A	18914	107	524	AGTHLPPFLPVAVRQPMALRY PIAVGLKQGPTKVTQEP*ASPR HHVRRGRL\TKHTKFVRDMIRE VCGFSP\YE\RRAMELLKVS KD K\RALKFIKK\RVGTHIRAKR KREELEQYWP AIEEKLACQER LE PLPLPSPLK
18806	49174	A	18915	39	465	

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18807	49175	A	18916	439	1586	TWGPPARRLPSGSHVPSA/ASSR LPSPREEPQLPQPAPVTITATM SSEAETQPPAAPP\GAPALSAA DTKPGTTGSGAGSGGPGGLTSA APAGG\DKKVIATKVLGT\VKW FNVRNGYGFINRNDTKEDVFV HQTAIKKNNPQKYLRSVGDGE TVEF\DVVEGEKGAE\AANVTG\ PGGVPVQG\SKYAADRNYHRR YPRRRGPPRHYPQ\NYQNS\ESG EKNRGIGRVLPEGQAQRRPY\ RRRRFPYYMRRPYG\RRPQY\ NPPVQGEVMEGADNQGA\GEQ GRPVRQNMRYRGYRPRF\RRGP PRQKTA*ERAAMEEDK\ENQGV WDPFRGSPQ\RRYRRNF\NYR\ RRRPQKTPKP\QDGQKRPKAAG SHPA*EFVPLPEAE\QGGAE
18808	49176	A	18917	1	651	MTAFNSGKVDIVAINDPFIDLN YVMYMFYDSTHGKFHGTVK AENGTLVINGNPIT\IFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSG\NCHVM AAGLSRTSSL SLLA/LAKPVGK VIPELNGKLTGMAFHVPTANVS VADLTCRLEKPA/KYDDIKK\NT HSSTFDAGAAIVLKDHSVKLIS WYDNEFGYSNRVVHLMAHNA
18809	49177	A	18918	2	5264	

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18810	49178	A	18919	3	1466	PRSAPRAASWLEDPREVRSVCL SAPPVRQSAAIFFCVASRATSLR TPMGKVKVGVNGFGRIGHLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGT\VK AENGKLVINGNPITIFQE\RDPSK IKWG\DAGAEY\VVE\STGVFNQ PWRKAGAHLQGG\AKRVNISAP SG*MPPMFVMG\VNHEEV*QTA FKIIISN\ASCTNQLA*QPLAKG*F HDNFG*SWEGLMTTVPWPSLG NPRKTVD\GPSRG\NCGPWMGR GGFSRNIFLCLYWALPRAVGKG HP*A*TGKLTG\MAFPVSPTAN VVSGWTLTCRFRKNLPKY\DDI KEGW*KQAFGGAPSKGIPGLQL SHQVV\SSDFNSDT\HSFHPFDA GA\GIA\LNDHFVKL\ISWYDNE FGYSNRVVDLIGPHGLQGSKTP WTTEPQARSKKGKERPSLLGSP CHTQTPTTLNLPSSQLPCRPLEE GRGLWEPHLMYPSNKVSLCS TKKKKKKKKP
18811	49179	A	18920	3	364	STVINIHSETSVPDHV/VLVPVQ HPLLE\RCCLGFIAFAYSVKSRD RKMVGDTVGAQ/ALCLHRQVP EHLGPDSGHPHDHWIHPVTGIR LCDSLPYYVTDNTGKTGLLVA AHSLQPLHSTVQCW
18812	49180	A	18921	41	696	PDRRWSSLGHESHCPNHSSLL STVASPPNYEDAQGR*SR/EVA VLGAPHNPAPPTSTV\IHIRQSR PPWPDHVVWSRVQHPLQ*TPA C\LGFI AFAYSVKSRGQGRWL G DV\TGAQGLMPPPAKVPETIW G PDFWGILNDHF\VHRHPQWLIFP G\HGIDQGRHHWRPGALPI/VT C IPRLLP T\SI PRPA PRSPKSCIS PYI LTRFSTMAFNKSARVSGKKKK

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18813	49181	A	18922	127	1016	SNLILRNLFPCPHLALASSAFDKC QEEETVEKTELLAERRGLTENH PGNPITAGHHEPHCANLLSCQQ RPRLPNYEMLKKEEQEVAMLGA PQKPCLPCEPPVIHYPQARPPWP DHVRLGPCFNNPLQ*TTCCPGL SLGISAYFRGSFRGTGKMV\GD VEPGPQGLMPPTAQVAP*TSGA PDFLGSLEPHLAHQSSPPKCW VVPGPAIDQE\ASLRP\GA\LPVT C\IPRTLASSIPSLPPEARELLPFD LYSTYSTFHSSPCPHSRVLHQPF ILTRFSTMAFNKVYMFVLVKKK KKKKKKV
18814	49182	A	18923	115	652	VSESTDVLSIGRLVTRA\AFNSG KVDIVAINDPFIDLNYMVYMF\ QYDSTHGKFHGTVKAENGKLV INGNPITIFQE\RDPSKIKWGDA G\AE\YVVES/TLGVFTTMEK\A GGSFRCRGGAKRVIHLLPPLA*C PPCFVMGVN\HEKDDN\TLKIIS N\ASCTTN\CLAPLASTGAAKGC GQGHPEA
18815	49183	A	18924	91	399	
18816	49184	A	18925	26	304	
18817	49185	A	18926	18	203	
18818	49186	A	18927	23	355	
18819	49187	A	18928	1	211	RLLRVRGPPSPRPPGTPAGRQA RHTAPVPARASPSTPPRKLKER APALASPERGSHSAAEG*RAPQ VPPK
18820	49188	A	18929	2	800	
18821	49189	A	18930	1098	1560	VSCPFTVIIFCYNFCRGGFSTTA VMARAKSMFLMLKGKAGPDF GIRFTASSGWFT*FEDRYALHN VNMNAESVGADVKAADFGS LIMEEIYLPQTQFFNMEEPSLFWK QMPERTFVICPKGFFPDHCNKE RPWHFCKRKSLTDTRVATPCG
18822	49190	A	18931	33	211	
18823	49191	A	18932	110	624	CILSKMLRSPQELARLPGGQRQ LTRW*QRWPLWTIALVLVLWR VKSGP*S*RVSPSP/PVEPWVT LNMAGAPHGNPAFPGGPPHP VPQPGYPGCQPLGPYPYPPPA PGIPPVNPLAPGMVGPAVIVDK KMQKKMKKAHKMKHKHQBKH HKYHKHDKHSSSSSSSSSDSD

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18824	49192	A	18933	2	664	CEPLRISGRPTRPGERSKPRRRL ER*WGWRTHLNMWNPAGQP GPNPYPPNIGCPGGSNPAHPPPI NPPFPPGPCPPPPGA\PHGNPAFP T\GGPPHPVPQ\GYPG\CQPLGP YPPPYPPAPG\IPPVNPLAPG\M VGTKQLISRQEDCRRKLKKAS* KRCHKA/HQKHHK\YHKHGHK FLLFPPPSFQAVISGLEYSRALDP SLKSHQFCSPIKLQMPCCCTGGM
18825	49193	A	18934	3	409	QTQVVIDAG/ALAVFPSLLTNPK TNIQKEATWTMSNITASR/QDQI QQVVNHGLVPFLVSDLS/KDFE TQKEAVWA/GGTVEQIVYLVH CGHIEPLMNLLPAKDTKILVILD AISNIFQAAEKLGETEKL SIMIEE CGGV
18826	49194	A	18935	133	400	VLGPHGLGDHLGQFHSCQSRA EPPIAGEDIHAGLDEPDCLTKDF LRI*LQLSTQLHAGQEEEDQNV VPETTSEGYTFQVQDGA PGTFN
18827	49195	A	18936	218	863	
18828	49196	A	18937	106	1879	TQSALQPLIPPASPSPWKAQARF GAFSLCLITMSTNENANTPACP VVHRFKNKKGKSTEMR\RRRIE VNVEL\RKAKKDDQMLKRERL *AHFLDDAT SPLQEN\RNNQG/T LLNWSVDDIVK\GINSS\NVENQ LQATQAAR\KLLSREKQPPIDNII RAGLIPKFVSFLGRT\DCSP\IQF ESAWALTNIASG\TSGQTKAVV DGGAI PA FIFSGWASSHAHISEQ AVWALGNIAGDGSVFRDLVIK YGAVDP\LLALLASS**CQSLAC GYLR\NLT\WTLNLC\RNKNPA PP\DAVEQILPT\LVRLHHDDP GSVRQDT\CWGYFPTLLDGSK WNGIGHGWV/VKQGVVPQLVK LLGASE\LPIVTPA\LKSP*GNNW HLGTDEQTQVVD/IDAGALAV\ FPSLLTNPKTNIQK\EATWTMSN ITAGRQ\DQIQQV/V*NHGLVPF PLSVFLSKADFKTQKEA\VWAV TNYTSGGTS*TEL VYL\HCG\II EPLMNLFYCKRLPRIILLILDAN FKISFQPAENL\VDLEKPSINLE\ ECGGLRPKLKALPKPMKMEV YKASVKA*FEKYFPCRGKEGRI KTVVP\ETTSEGYTFSSRMGPP

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18829	49197	A	18938	2	251	KVTNVKDGTTTH\QTSLELFMYL NEVAGKHGTVGRIDIVENRFIGM KSR/GMNVQGDYEPTDATGFIN INSLRLKEYHRFQSKVTVK
18830	49198	A	18939	1	888	
18831	49199	A	18940	1	1155	MSSKGSMLVLAISGGLNTSCILV WLKEQGYDVTAYLANTGQKE DFEEARKKALKLGAKKVFIEDV SREFVEEFIWAAIQSSALYEDH YLLGTSLTRPCIAHKKVETVQR VGAKYEGPWRAPWRMPEFYN WFKGRSDLMEYAKQHGIPIVLT PKNLWSIDKNLMHISYKAGILE NPKNQVPPGLYTKIQDPAKAPN TPDILKIQFKKGVPVRVTSVKD GTTHQTSLELFMYLNEVAGKH GVG/YIAIVENIFTRQRPSPCECF VRPCIAKSQEPAGEKVQVPVLK GQVYILGWESPLSLYNEELMSV NVQGDYEPIDDTGFININSLRLK EYHCLQSLLEFAGCRLQTLFAW VSPAGAAEQRLLPVSSGNFIP EGHLPDASWSSPV
18832	49200	A	18941	1	993	MSSKGSVVLAYSGLDTSCLV WLKEQGYDVIAYLGAQVKG QLLPVSLVKRKTTPGAQYANR LSPRVGRFINAAGTTGFTGKR AGNDQVRFELSCYSLAPQIKEM GSLKVRNE/LQEVSTVPMPAST QLPADTQCKLAE/LSAPVKK*T LGLSKT*QTQVMSSQSADSMR AWYRN*LFTNPTVRRLGNSPVT GSSLPRLPG/RGIYETPAGTILYH AHLDEAFTMDREVRKIKQGLG LKFAELVYTGAECKLLVASVPE PWRGRGGVEEGGRDIKEVQEH GSDSAESSTHPPASRPGEGLA CIFCGKWRHLNTPLSERYPRH SRDHRPH
18833	49201	B	18942	324	1035	

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18834	49202	A	18943	29	1516	KQIPDAGNSRLQSQTLLSSKGS VVLAY\SGGLDTSCILVWLKEQ GYDVIA\LANIGQKEDFEEARK KALKLGAKKVFIEDVSREFVE\E FIWPAIQVQAHLY\EDRYLPGH LSLPGPC\ARKQVGNPSGRGA KYVVPTGATGKGNEQ\RFEL S\CYSL\APQIKVIAP\WR\MPEFY NR\FKGRNDL\MEYGKATLGFPI PVT PKNP\WSMDENLMH\SYE AGILENPKNQAPPGLYTK\TQGP SQKPPTPLDILGDSSFKKGVPE GGPTFKDG\TTHQTF\ELFMY LNEVAG\KHGRRVFDIV\ENRF \IGN*SPRGILRRTP\AGHHSFYH AHLDIRGLSPWDRGSCGKIKQG PGAWKFAEL\VYTGFPQAPE\ CEFCPTGIAKVPRKPSGKGKV QVVRSEFKGPQVY\LSGREIPHC LLLTRELVKHGTCKGDYWRP IDGHRGSSKHQIPFKAEGNYHR LPRAKVTCQIDPVYNEELGPPQ FSGSPQVTGANCCDNL
18835	49203	A	18944	1	560	GRARTPANMALRVVRSVRALL CSLRALWAPAVPCLPRPWQLG AGAIWTLTGPVLLWVCKFTE KHEWITTENGIGTVGINNFANE ALGDVVYCSLSEVGTKI*TKPS WSLVLE\SVKAASEL\FSPLSG EVPDFNEALAE\NPG\LVTKSRY EDG\WLIKMTLSNPFRT*MHL MSEEAYEKYIK\SIEE
18836	49204	A	18945	3	108	
18837	49205	A	18946	1	845	MAIPGIPYERRLLIMADPRDKA LQDYRKLLLEHKEIDGRLKELR EQLKELTKQYEKSENDL KALQS VGQIVGEVLKQLTEEFIVKAT NG\PRYVVGCRQVIELPLTNPE LFQRVGIIPKGCCLLYGPPGTGK TLLARAVASQLDCNFLKVSSS IVDKYIGESARLIREMFNYARD HQPCIIFMDEIDAIDIDL PNEQA RLDILKI HAGPITKHGEIDY EAI VKLSDFNGADLRNVCTEAGM FAIRADHDFVVQEDFMKAVRK VADSKKLESKLDYKPV

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18838	49206	A	18947	3	1181	LLIMADPRDKALQDYRKKLLE HKEIDGRIKELREQLKELTKQY EKSENDLKALQSV\GQIVGEVL KQLT\EEKFIVKATNGPRYVVG C\RRQL*QKVS LKPG\TRVAL\D MTTLT\IMEDILPR\EVDPLVYN MS\HEDPG\DVSYSEIGGLS\EQI RGI*GEVIGLPLYKPKQSYFQRVG IIPPK\GCLLYGPPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFM\DEIDAIGG\RRFSEGTSADR EIQRTLMELLNQMDGFDTLHR VKMIMATNRPDTLGPALLRPG RLDRKIHIDLPNEQARLDIL\KIH AGPITK\HGEIDFESNC*SFRMG FNGADL\RNVT*SQACSPIRAD P*FC*YREDF\MKAVRKVA
18839	49207	A	18948	1	220	VNMRDRFGQIMENLRRRQCEL AGVETCKSLES\RIESLEFLDEM */LLEQLM/RHYCLCWATKGGN ELGLKEITY
18840	49208	A	18949	1	645	
18841	49209	A	18950	10	1226	AAPAEPGRALPSSVAFSLWLAP SPAARRPRFHVPGGAQLPGTVH ARWPARQR\ESSITSCCSTSSCD ADDEGVRGTCEDASLCKRFAV SIG\YWHDPYIQDL\VRLSKQR\ KAPEINRGYFARVHGCSVQLIK\ AFLR\KTECHCSNCSNLGGQGM GSPPFWRLKDEDLSSQVNIFEV DFPMIVT\RLHSIKWLAFPLSS PILELHSEDTLQMASDCIC\DGH ILDSKRYAVIGADLRDLSELEE KLKKCNMNTQL\PTP*IAECVL VYMTPE\QSANLLKWAA\NSFE RAMF\YYQQVNMGDLFGQIMI ENLRGPV/CDLAGVET\CKSLE SQKERLLS\NGWENKHRPVRT* LEFVPPGLPSKLK*SRIESLE\LD ENWELLEQLIPHYCL\CWATQR RK*SLGLKEITY
18842	49210	A	18951	3	502	TEANTLN*RGLQNM/ARLAE/ RKFM/NPFNMPNLYQKLESD/P RTRTLLSDPTYRELIEQLRNKPS DLGTKLQDPRIMTTLSVLLGVD LGSMDEEEEIATPPPPLPSSMS LSPAPSCCLGCSPIVGFFFIWGS GHVMGRGGGSSSLRSQLSHVV YSASPSPKQASAWL
18843	49211	B	18952	1	1071	

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18844	49212	B	18953	67	1026	
18845	49213	A	18954	2	1910	PVASSMFQKAARAVGNAERTD SIQRCSGPRCAMEQVNELKEKG IKALSVGNIDDALQ\CYSEAI*/R LDPHNHVLYSNR\SAAYAKKG DYQKAYEDGCKTVDLK\PDW GKGYSRKA AALEFLYRFEEAK RTYEEGLKHEANNP\QLKEGLQ N\MEARLAK\RKFMNPFNMPNL YQKLESDPRTRTLLSDPTYRELI EQLRNKPSDLGTLQDPRIMTT LSDLLGVDLGSMDEEEIATPA PPPAKKETKPEPMEEDLPENK KQALKEKELGNDAYKKKDFDT ALKHYDKAKELDPTNMTYITN QAAV\WFEKGDYNKCRELCEK AIEVGRES\REDYRQIAKAYARI GNSYFKEEKYKDS\IHFYNKSL AEHRTPDVLKKCQQA EKILKEQ ERLAYINPD LALEKNKGNECF QKGDYPQ\AMKHYTEA\KRN KDAKL\YSIRAACYTKLLEFQL ALKDWEEWYQLEPTFIKGYTR KA\AALEA\MKDYTKAMDVYQ KALDLDFSCKEAADGYQRCIM AQYNRHDSPELVKRR\AMADP EVQQFMS\DP\MRFILKQMQK DP\QALSE\HL*RNPLLPREIQKL MDVGSDCKFGDDLFI PAFLCPS CGKRSWDRGEQAARSGRESST ERKGEQGERRPSSPYIYT
18846	49214	A	18955	2	293	
18847	49215	B	18956	53	182	
18848	49216	A	18957	2	403	
18849	49217	A	18958	3	1646	
18850	49218	A	18959	3	408	
18851	49219	A	18960	1	2458	

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18852	49220	A	18961	88	1511	LWPLGMASNSSSCTPGGGHL NGYPVPPYAFFFPMLGGLSPP GALTTLQHQLPVSGYSTPSPATI ETQSSSSEEIVSPSPPPPLPRIYK PCFVCQDKSSGYHYGVSA CEGCKGFFRRSIQKNMVYTCH RDKNCIINKVTRNRCQYCRLQK CFE VGMSKESVRNDRNKKKKEVPK PECS EYTLTPEVGELIEKVRKA HQAETFPALCQLGKYTTNNS SEQRVSLDIDLWDKFSELSTK CIIKNGEGRQGRLPGF TTLTIADQITLLKAA CLDILILRICTRYTPE AGTP*PSWDGLTLNR TQMHNAG\FGPL TDLVFANQLLPLAE MDDARETG LLSAICLICGDRQ DLEQPD RVDMLQEPLLEALKV YVRKRRPSRPHMFPKML MKITDLRSISAKGA ERVITLKMEIPGS MPPLIQEML ENSEGLDTLSGQP GGGGRDGGGLAP PPGSCSPSLSPSSNRSS PATHSP

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18853	49221	A	18962	143	2159	LTHSSTWLGRSCNHDRRQMGS KVMSYVVAGRGTC AQETPIYT TIRYLEDKEQYGGSLGVDSVLA RLFSGASVLFISGPPFSSYLSGVP PGHPMEDSM\DM\DMSP\LRPQ NYLFGCELK\ADKDYHFKVD\N DENE\HQLSLR\TVNLGGLVAK G*VAHLLKAEAEFTEASPNLK VTTWAT\LKMSVPAQRVFPLG GLLKITPTRWVLKGLKVWVQG PVHISGTAL**LWEGRCQSPED E\EEDVNRVLFMKPKGRGLKH MFGDLVCSWKLA AIETQSSSSE EIVSPSPSPPLPRIYKPCFVCQD KSSGYHYGVSACEGCKGFFRRS IQKNMVYTCHRDKNCIINKVTR NRCQYCR LQKCFEVGMSKESV RNDRNKKKKEVPKPECSYTL TPEVGELIEKVRKAHQETFPAL CQLGKYTTNNSSEQRVSLDIDL WDFSELSTKCIKTVEFAKQLP GFTTLTIADQITLLKAACLDILIL RICTRYTPEQDTMTFSDGLTLN RTQMHNAGFGPLTDLVF AFAN QLLPLEMDDAETGLLSAICLICG DRQDLEQPD RV DMLQEPLLEA LKVYVRKRRPSRPHMF PKMLM KITDLRSISAKGAERVITLKMEI PGSMPLIQEMLENSEGLD TLS GQPGGGGRDGGGLAPPPGSCSP SLSPSSNRSSPATHSP
18854	49222	A	18963	748	1075	ILPTSLFFLFCFVFFVCF*DRVLL LSPG\WSA VARSWLYCNLSLRG FKGFSCLSLLSNWDYRCTPLRS ANFVFL/CRDRVSPCWPTS VSNS *PQ\VIHPPWPPKVLGITRV
18855	49223	A	18964	3	674	GRRRLLRDAEGPEETVRLWPA ARAAMDAAEVEFLAEKELVTII PNFSLDKIYLIGGDLGPFNPG\LP VEVPLWL/ARLNLKQRQK\CR L LPPEWMDVEKLEKMRDHE\RK EETFVTPMPKPFTTWELTKLL\N NHA\SDNIPKGRTEFRDPGSRVF WGHSY*AKFRVFG\DSF\VRQQ EAHAKLD*LGPWMGDQQPAVT FLTQA\LNPHVTNSRTNPPSPLE STSVLR TS

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18856	49224	A	18965	261	876	VAQKIDMPEYQGEPDEISIQKC QEAVRQVQGPVLVEDTCLSFN ALGGLPGPYIKV/WFLEKLKP/E GLHQLLA/GF/EDKSA/YALCTF CTQAPGDPS\QPVARLVSGGRDL RGRIRWHPEGCQ\DFGWD\PC\F QPDG\YEQTYAEMP*GGRRNA V\SHRFRAPCWEPAREYFWQV WPSLTASWKEGPSRPGDLGK GLAPKPSPHRGRAPP
18857	49225	A	18966	2	181	TAEKMAVLAPLIALVYSVPRLS RWLAQPYLLSALLSAAFLVR KFPPLCHGLPTQREDGNPCDFD WREVEILMFLSAILMMKNRRSS TK*AHPTRRR
18858	49226	A	18967	5331	5454	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18859	49227	A	18968	5186	5308	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18860	49228	A	18969	4570	4691	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18861	49229	A	18970	5666	5788	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18862	49230	A	18971	5630	5752	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18863	49231	A	18972	224	456	
18864	49232	A	18973	5543	5665	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18865	49233	A	18974	4602	4725	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18866	49234	A	18975	3	313	
18867	49235	A	18976	5480	5602	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18868	49236	A	18977	269	394	
18869	49237	A	18978	5322	5445	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18870	49238	A	18979	164	434	
18871	49239	A	18980	5364	5487	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18872	49240	B	18981	18	1904	
18873	49241	A	18982	1296	1973	RILPGGQQNSSWNFSEDVISIL NTINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAAL VLQTIWGYKELRKPLEKEGWK KSDFQVNLNNASRSQSSHYYDD STLPLI*PGPKNQIRNLIGKKFR* AIWDQTQNH*IT/DYSTPNERGD HNRTLDRSGDLGDMEPLKGT PLMQDEGQESLEEELDLVLVD DEGGQVSYPSMVCPSVTPKIVL EEGGS

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18874	49242	A	18983	5844	5967	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18875	49243	A	18984	5781	5904	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18876	49244	B	18985	1	1477	
18877	49245	A	18986	152	1539	
18878	49246	A	18987	5571	5694	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18879	49247	A	18988	4551	4674	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18880	49248	A	18989	2	1043	GVRLRYSPIAVVMVGEAGRDL RRRRRAVAVTAEKMAVLAPLI/S LSVYSVPR\LSRWLAQPPYLLS A\LLSAAFLLVRKLPLCHGLP TQ\REDGNP\CDFDWRE\VEILM FLSAIVMMKNRRSITVEQHIGN IFMFK/SKVANTILFFRLDIRMG LLYITLCIVFLMTCKPP/LSPYM GPEYIKYFN\DKPFDEELERDNR VNW/ILLEFFGNWSNDWQSFAP IYADLSLKYNCTGLNFGKVDV GRYTDVSTRYKVSTSPLTK\QLP TL\ILFQGGQGGQCGRPQI*QGK GR/ALFSWDL*GT*KEGQENVI REFNLNELYQRAKKLSKAGDNI P\EEQPVASTPTTVSDG\ENKKD
18881	49249	A	18990	1	1105	MESTGEDAVNIVEMVTEDLVY RLVVLKSLQVWLSPGDFMGSE GTECMLIGPWVAMGRPSESTLS SHSGPRSPHGTGSPAPRLQAVH VLKCPKSRGVQGGWGLASQCL PEHRHTQLSCDSTQAWPQLCSA QSLRHNRSQGAGAVTSEPAG AGGLPRPRTQGCLGAES/PAG QLHSQQRGGPPEGRLSDVDHP DLSSSQRGPEGP/QVAGGWCV SAAWSSTHLAGPQQRWDQEEA RQWEQIPLSLLMMGDPPGYSR APGDPGPQPQPRQLQLCLGSSH PTNS*GAELPPVPGSAECAALT VLPSLHLPQWWQVGRPGPT*V DPRVGLPGQQAPEQRVYSLTHP EQLPVLQVPLLIYRYSSTYNGV
18882	49250	C	18991	105	393	
18883	49251	A	18992	38	230	LYWQKRKGKLLNNLTQGIVAD PVR*KKFHFCKPSNCPKIHNTES AYAVSFMKYSAHVLGSLYEM
18884	49252	A	18993	487	747	
18885	49253	C	18994	179	649	
18886	49254	A	18995	3	3187	
18887	49255	A	18996	274	423	

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18888	49256	A	18997	1333	2243	RCWRPRTLGFASPPTRPCSPTH APGCEMTPRDWHRVLSFASPLR IEEIFQGYDKTFGLKNKKGAKQ QKFIKAVTHQVKFGQ/SKSTSGS TE*SWKRKLKDDKKELQEL NELFKPVVAAQKI/RVKGADPK SVV\CAFFKQGQCTKGDCKCKFS HDLTLGEKMEKRSVYIDARDE ELEKETKSSLIQADTMDNWDE KKLEEVVNKKHGEAEKKKPKT QIVCKHFLEAIENNKYGFVWV CPGGGDCMYRHALPPGFVLK KDKKKEEKEDEISLEDLIERERS ALGPNVTKITLESFLAWKKRRR
18889	49257	A	18998	1	322	
18890	49258	A	18999	1	822	MGKAKEEVFLADELVHAKTNR NKECDYSVTANSKIVVVTAGV RQEGESRLNLVQRNVNVFKFI IPQIVKYSPDCIIIVVSNPVDILT YVTWKL SGLPKHRVIGSGCNL DSARFRYLMAEKLGIHPSSCHG WILGEHGDSSDHPGRPRPHVPI KPPETLPGRDTSSWTSRGAHWR RNTQAAGRREHIDRHQQAIDR WNNVGFGRRGQRRARLLSDLT PTGKPSSYSVSLLAPPSAESYFH SIKPCIHSPS*CMQRPIEKN/RD YSVTANSKIVVVTAGVRRQEG ESRLNLVQRNVNVFKFIIPQIVK YSPDCIIIVVSNPVDILTYVTWK LSGLPKHRVIGSGCNLDSARFR YLMAEKLGIHPSSCHGWILGEH GDSSDHPGRPRPHVPIKPPETL PGRDTSSWTSRGAHWRNTQA AGRREHIDRHQQAIDRWNNVG FGRGGQRRARLLSDLTPTGKPS SYSVSLLAPPSAESYFHSIKPCIH SPSPREIQFFGYTKARNPRVQK

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18891	49259	A	19000	1	1337	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADFVFSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLGK EMMDLQHGSFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPDCHIVVSNPRDNLTYGTW KLSGLPKHRVIGSGCNLDSARF RYLMAEKLGIHPSSCHGWILGE HGDSSVAVWSGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGTNWAIGLS VADLIESMLKNLSRIHPVSTMV KGMYGIEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKS DTLWDIQKDLKDL
18892	49260	C	19001	462	728	
18893	49261	A	19002	1	1033	MSGFSLMFLPKADMPAPMLVQ PAERFDSWVWAGPEQLHSNQL PGDADALLGRNLTKGTRRLC TEEQVKIPQPEPGPPQKLCVLSA AGGQACLVLTFPRWTVWEEPP PPGLVGVKACARWWGKGEPD RKAPAPPPPPGTEKVDQTSEME RGTLIQRPPAPALPGWVRKTGR P/PPPA/TGRLQQVPLLGASTQPE /PPGRGV/PPGVSPGLGEDVE/N DGMSLSYLAEPQATSQRAP*G ENTVALSGRLGRNSSSYTCRPA GERNFHPRGGPSSTAALHLRK MPGTPQCEGRRVPRALPET*M LQGPQTTR*T/PPGPLAFSPSSP TGPQKVKS LGNSSARTILPPKW
18894	49262	A	19003	2	212	
18895	49263	A	19004	1	425	PTRPAAVAEDGGLKKCKISSYC RSQPPARLISGEEHFSSKKCLA WFYFYAGPDEVVGPEGMEKFC EDIGVEPENCDCTEKLQNKDFD LRSQNDISSFKNIYRYAFDFAR DKDQRSLDIDTAKSMLALLGR TWPLFSVFY

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18896	49264	A	19005	229	1028	GASKRTGTPFPGFPAHPAREGR KMPVKKKRKSPGVAAA VAED GGLKKCKISSYCRSQPPARLISG EEHFSSKKCLAWFYEYAGPDE VVGPEGMEKFCEDIGVEPENII MLVLAWKLEAESMGFFTKEEW VKG\MTSLQCNLHRKGYKPNF DFFAAHS*IDISSFKNIYRYAFDF ARDKDQR\SLDNDTAKS\MLAL LLGEGHGPLFS\VFYQVPGGQS KYRVMNKD\QWYNVSEFSRTV\ HADLSNYDEDGA WPVLLDEF VEWQKVRQTS
18897	49265	A	19006	3	373	
18898	49266	A	19007	3	418	GRAGSRKWLLLTGSLASTSPSL LSGQGPWAPLQRAMKPPGGES SNLF\GFPEEATPSSRPNRMSSNI FGPTEEPQNILKRTNPPGV*GSG IFDESTPVQTRQHLNPPGVGKTS DIFGSPVTATSRLAHPNPKPDH VFLM
18899	49267	A	19008	1	684	
18900	49268	A	19009	3	81	
18901	49269	A	19010	1	465	
18902	49270	A	19011	120	344	
18903	49271	A	19012	3	1334	SPQLISSASRPVVRNSRHDATRP VVFQIMSGGSADYNSREHGGPE GMDP\DGVIENWNEIVDNF/D VTMNLKESL\ARGIYAYGFKEP SPIQQKA\IIPCIKGY*CGLLKLQ SGTGKTATF/SLISILQPVGRLSF KETQSTSYWAPTREL\AQQIQK VILALGDYMGATCHACIGGTN VRNEMQKLQAEAPHIVVGTPG RVFDM LNRRYLSPK WIKMFVL DEADEMLSRGFKD\QIYEIFQKL NTSIQVVFASATMPTDVLEVTK KFMRDPIRILVKKEELTLEGIKQ FYINVEREEWKLDLTLCDLYETL TITQAVIFLNTRRKVDWLTEKM HARDFTVSALHGDMDQKERV IMREFRSGSSRVLITDLLARGI DVQQVSLVINYLPTNRENYIH RIGRGRFGRKGVAINFVTEED KRFLRDIETFYNTTVEEMPMN
18904	49272	A	19013	75	540	

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18905	49273	A	19014	774	1529	RWGERILLTWRKRQLQVPPSAL EAGGSSGLEDVLP LLQQADELH RGDEQ GKREGFQ LLL/TQQAW CMEAGRTFLWRLARAYS DMCE LTEEVSEKKSYALDGKEEA EAA LEKGD EE/SLTCHLWYAGALW SAG*AMRASRRRIQELALTFKE HCGQKPFALQP/KTPMAHFLLG RWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKCYREL GKNSEARWWMKLAL ELPDVT KEDLAIQKDLEEEVILRD
18906	49274	A	19015	97	452	GTERRTGKLPALLTPNLVQLRR LLFPGIQT I*VPAQGRGHLLQRP AAA/RPRTSAPPAAAAAPPQV EARPP*LQPTRQEEAAELQTAR AGLWELWAGPQSPRDLNSLESI RITCSPTP
18907	49275	A	19016	1299	1800	FWGGRSGTVGYGADM GKFKN NTTNNQS*K*YRNTSRNPDH KD *FLKGMDPKFPKNMHFA*KHN EKGLEKMQDNNMRAEAIKA/L PKPMEVQPRVPKSASRKLD/LA YTAHPKAGKHARAHIATGLRL CWPKAKAKDQTKAQASASAA APASVLAPAQASKGAQAPMKA LE
18908	49276	A	19017	410	1323	RQEGTLIGVFIPAAAAAAAVAA AAAAAAAVAAAAAAAV AAAAAAAVAAAAVAAAAA AV/GTSFSKPHKLMKEHKEKPS KDSREHKSAFKEPSRDHNKSSK ESSKKPKENKPLKEEKIVPKMA FKEPKMSKEPKPDSNLLTITSG QDKKAPSKRPPISDSEELS AKK RKKSSSEALFKSFSSAPPLITCS ADKKQIKDKSHVKMGKV KIES ETSEKKKSTLPPFDDIVDPNDSD VEENISSKSDSVPGQSPVTNIFF TSSSTPTILKSYQLDNSDQQGA QEASDKQIEGYFSGEVPAYRQG ELILVASRQ

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18909	49277	A	19018	91	890	GAERLPEGPGKRMVFRRFVEV GRVAYVVSFGPHARK/MWVAIV DVF*SEQLLVE*PCTQVR\RQA \MPFRMQLN*FHPSRFPNSAQ ESMFRQAWQK\ADI\NTKWGSP HDGAKKIEAQRKGKPKDDQIF D\RFKVMGQKKMREQE*SKE* S*RSFKRAALLEKLSPKKKHLG T*GYCLLLLLLLLLLLLLLLL AACLLACCLKVPSKKRSPAAS KKAPAKVPAQK\ATG\QKAAP APKAQKGQKAPAKAPKAS GQESISGNHKK
18910	49278	A	19019	280	1249	SLNEGIMYAQP\VTNTKEVK\W QKV\LYERQPFSLDKLWDDR LGRSSGKNIHAPENTQY\WGCG *FESSV\VIQQLCSVCVFVIR\W YMDEGLLAPHWL\VTGLASSL IGYVLFDLIDGGEGRKKSG\QTR WADL*ELP*SFITFTYG\FSPVLK TLTEFCSALTPIYAMSVFMLLR HLIFFDYG\ANAAIV\STLLVN MAIFAS\VCWASRLPRS\LHAFI MVA\FAIQIFCPGGPML\QKKLK \ACTP\RS\YVGVTLLFAFSAVG\ GLLSISAVGA\VLLA\LLMSISC LC\PFYLHFACSLFKENI/HMGP WDEA\ETKEDLSPGSL
18911	49279	A	19020	1	310	
18912	49280	A	19021	2	411	
18913	49281	A	19022	374	1275	VLTRLIRKRERRKAQSQRERCR CVLAKDFLAGGVTAISKMAV APTE/RVKLLQVQSASKQITAD KQYTGVDVCMVRIPKE/QGVLS LWH\GIQFWHKFAGSLASGGAP GATSLCFVYPL\DFARTRLAAD VGKAGAEREFRGLG*PAGLRIY KSDGK/LRGLYQGF\NVSQGI YRAAYFGIYD\TAKG\MLPDPQ NTHIVISWMIAQTVTAVARVDF PIPFDT\VRRRNE*MQSRAPKEL TIHVHQAQRFDCWAEGLLRDEG G\KAFFKG\AWVPMFLRGHGVG AFCALSLYGWKSKEGTHKLIS
18914	49282	A	19023	461	705	TERKKKGILPGNGNGFMSLRRT IRVWRNTPNYLGTNAVSP\AQD *IGKKGVCQRKQAGPCPPSNIQ GILEWRKHRISETKP
18915	49283	A	19024	2	408	

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18916	49284	A	19025	1	885	MTQHAGKRDSSELPVIVQDTET VPSVMDGKEYQAGRFARGLRL QCFRRRRRRRRTRRRRRKEEEE EEEEEEEEEEEEVEEEGMKKEE EGRRRKKKKKKKAEEEEKKK KEEEEKKRRRREPPRPRNDDD ARRRRKEEEEGRRRSM/LGKRD SELPVIVQDTETVPSVMDGKEY QAGRFARGLRLQCFRRRRRRR RTRRRRRKEEEEEEEEEEEEE EVEEEGMKKEEGRRRKKKKK KKAEEEEKKKKEEEEKKRRR REEPPRPRNDDARRRRKEEEE GRRRSMKKEEEEEEEEEEEEE EEEEEEEEKKKRRIGPASKMM GGFEELRRGLNVGPTMAIFFLQ SAALAPAILYFCPSLKSNIKCN FQFLMFCQLLGRVTIPFLVSQRS RIEVGRHSLSTLNAETAHELYL GRTEPDECGKTAGLGTGLDLK
18917	49285	A	19026	1	378	
18918	49286	A	19027	36	3415	ESAANAQVLAAPSPCSPFAFTL SKVNMSLKNPRVNTSALQKIA ADMSNIENLDTRELHFEGEEV DYDVSPSPDKIQEVYIPFSAIYN TQGFKEPNIQTYLSGCPKAQVL EVERFTSTTRVPSINLYTIELTH GEFKWQVKRKFHFQEFHREL LKYKAFIRIPIPTRRHTFRRQNV REEPREMPSLPRSENMIREEQF LGRRKQLEDYLTILKMPMYR NYHATTEFLDISQLSFIHDLGPK GIEGMIMKR
18919	49287	B	19028	37	147	
18920	49288	B	19029	10	264	

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18921	49289	A	19030	3	1255	HASGGRAANMAADRGAVQQQ SQDMMEVDRRVESEESGDEEG KKHSSGIVADLSEQSLKDGEED GAEEDPEEEHELVPDMETINLAD RDAEDF\DLNHYRIGKIEGFVL EES*RLSCLRQNL\KCL\ENLGR ELPESFRELDLYDNQIKKLENLE ALTELEILDISFNLLRNIEGVDK LTRLKKLFLVNNKISKIEN\ASN LHQL\RMLGAGDLNRIRGQFSK YPTTL\TNL\ESWFLGKKTKITN FQNPGCASPNTVLSMQSNRLT KIEGLQN\L\N\RELYFSHNGIE VIEGLENN\NKL\TMLDIASNRK KI*KISAHLTEL\QEFWDGTTIPL KSWSDLDELEGEPGALEDSVP WGGNPLARRTPKYRRK\VMLA\ LPSVRQDRCPRSVRFLKSFLGSL MWSLSSEELPSHG VFNPCCS
18922	49290	A	19031	138	564	YREVMVSES*ETPAGARGRPYY FSAPGTAP\PAINVHPPPPSLSAT PHPPQPQPPPHQHNAKARVAT IRTKRTSNCRIRSRKVRKSPPEK WVGFNRRPKASCSPPGAARV DVGGETERREQAAAPGEMGK WARPGEYFHS
18923	49291	A	19032	1404	1586	ENESRFSDRNQASAGLYLSDS L*QWIVGNHATDLWQNCSTS SSGNVHHCFSSSPNGSG
18924	49292	A	19033	187	701	AELAARMLLLLLSIIVLHVAAL VLLFVSTIVSQWIVGNHATDL WQNCSTSSGN\VHHCFSSSPNE W\QSCSRGTMDPVDSSFSILSL FLFFCQLFTLTGGRFYITGIFQ ILAGLCVMSAAAIYTVRHPEW\ NLNSGY\S*RFA*ILAWVAFPL\ ALLSGVIYVILRKRE
18925	49293	A	19034	1	493	
18926	49294	A	19035	105	307	
18927	49295	A	19036	32	302	
18928	49296	B	19037	119	641	
18929	49297	A	19038	496	653	
18930	49298	C	19039	568	747	
18931	49299	A	19040	522	656	ESSQSHGKNFYMGKRIKLSLY WNVWRMLNSKSETTNCPLIRH RLSKRVGAPFLPAVLVLTKITIY QT*KFQIRNHKLPSNKTSAI

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18932	49300	A	19041	111	277	RHVAVVVLGDVGRSPRMQYH ALSLAMHGFSVTLLGFCNSKPH DELLQNNRIQIVGLTELQSLAV GPRVFQYGVKVVQLQAMYLLW KLMWREPGAYIFLQNPPGLPSI AVCWVFGCLCGSKLVIDWHNY GYSIMGLVHGPNHPLVLLAKW YEKFFGRLSHLNLCVTNAMRE DLADNWHIRAVTVYDKPASFF KETPLD\RTHRLFTKLTNMHSPF RARSEPDPVTERSAFTERDAG SGLVTRLRERPALLVSST\SWTE DEDFSILLAALESRV*TTDS/SIG HNLPSLVCVITGKGPPREYYSR LIHQKHFFQHIQVCTPWLEADY PR\ILGSVDLGVCLHTSCSGLDL PMKVVDMMFGCCLPVCANFK WQEQNPNLSGDSFTDPPLRRKQ CRASCPQ*GPAPGLHELVKHEE NGLVFEDSEELAAQLQVLFNSF PDPAGKLNQFRKNLRESQQLR WD*SWG SATPNPMMSSCRTE
18933	49301	B	19042	110	2294	
18934	49302	B	19043	81	1538	
18935	49303	A	19044	21	1158	AVVAALPTSSSRHSLTQKPGS RRLRIESLLPPSSCEIFLIFSIFR LCEKPYHQTRSASNVTKTDPR SMNS\RVFIGNLNTLV\VKKSDV EAIFSK\YGK\VGCSVHKGLCLS VQVMLMRRNAPGLL*QGEIDG RMI\ALGQVLDINLAAEPK\VN\ REKSSVKRSAAEMYG/SQ*QNT LLRPLYFSSFDLDYDFQRDYY DRMYSYPARVPPPPPIARAVVP SKRQRVSGNTS\RSGPRGFNSKE WNSGVSSKFWKR*KGDDLQ\AI KEELTQINQK\VDLLENLEKIE KATGANKQLEMK\ND\KSEEEQ SSSSREGKMRTNVKDG*GGV PDDSAEGGGPTWMNDDNVKS GGMTSWEL\KDDEKEAEE\GE DD\RD\SANGGG
18936	49304	B	19045	93	303	
18937	49305	A	19046	1	246	
18938	49306	B	19047	123	487	

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18939	49307	A	19048	584	1664	SGLFLFLFFYSEIFLIFSIFRLCE KPYHQTRSASNVTKTDPRSM NS\RVFIGNLNTLVVKKSDVEA IFSK\YGKIVG\CSCFIKGFAFPFK *C**EEMPRACCSGRRVGRIDLL GQVLDI*PGLAEPK\VNPREKPG VETILPAGDVRGQ*QNTLLRPL YFSSFDLDYDFQRDYYDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWKR*KGDDLQ\AIKEEL T\QINQK\VDSLLENLEKIEKAT GANKQLEMK\NDK\SEEEQSSSS REGKMRTNVKDGV*GGVPDDDS AEEGGPTWMNDDNVKSGGMT SWEL\KDD\KEAE\GEDDKR QGPMARNDS
18940	49308	A	19049	158	1001	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTARL\ILAEELGQ EWVPVESSWRLNERH\YGAL\I GLNREQ\MA\LNHGE\EQVRL\W RRSYNVTP\PPIEE\SHPY\YQEIY NRPGGIK\CDVPL\DQLPRSES\ LKDVL\ERFLPYW\NERIAPEV\L RG\KTILISAHGK*AVGALLKHL GRYPSGLKTSINIYSFLLGVPILL \ELD\ENLRAVGPH\QFLGDQEI QAAIKKVEDQGKVKQAKK
18941	49309	A	19050	1	521	SASWVGAMASRVLSAYVSRL PARFAP*PRVRMLAVARHLST ALCSEGTQTRLGTLQPALVLA\ QVPW*ELHMLCRQYSDMP/PRL TLEGIQ\DRVRLA*LKTLSDKVD PREAFQ*ILHFMKDLGLDSLDP KWKII\MALED\EFGEIP\DI\DA EKLM\TPPRKLVLDLHCQDKKD
18942	49310	A	19051	1	516	IRALTMIWRRALLAGTRLVWS RSGSAGWLDRAAG\LR\DCG\TA ASGMESNTSSSLENLATAPVNQ I\QETISDNCVVIFSKTSCSYCTM AKK\LFHDM\NVN\YKVVELDL LEYGN\QFQDASLQK*LVERTV PRIFVNGTFIGGATDTHRLHKE GKLLPLVHQCYLKK\SKRKEFQ
18943	49311	A	19052	825	1080	KRKIHQNFHKLSLKKAIEKDYS ESGSSVNQYKRIRPTDNVVIKQ Y\WPGAVAHTCNSSTSVGQGR WIT*QGEFETSLANVVKPHLY
18944	49312	A	19053	80	429	

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18945	49313	A	19054	3	752	FKNAVGNLAMEGGGGIPIETL KEESQSRHVLPAFVNSLQKS NWGFLTGLVGGTLVAVYAVA TPFVTPALRKVCLPFVPATTK\ QIENVVKMLRCRRRDPLWDIGS GGRDGIVHRRRLRRKGFTAVGF MEFKPMG*FWVFPRY\RAWRE GVHGSAKFYISDLWKVTFQSYS NVVIFGVPQMMLQLEKKLRE LEDDARVIACRFPPHWPDPHV TGKGIDTVWAYDASTFRGREK RPCTSMHFQLPIQA
18946	49314	A	19055	157	829	TWKGKDPKKPRGKMSSYAFFV QTCRGG\HKKKHPDASVNFSEF\ SKKCSERWKTMSA*R/EKGKFE DMAKA\DKARY\EREMKTYIPP QRGRQKRKFKDSQLHPRRPPSG LLSSSCSEYRPKIK\GEHP\GL\SI GDVAKKLGRDVGINTAAD\DK QP\YEKK\AAKLKEYEKDIA\A YRA\KGKPDAAKKGIVVKAES KKKKEEEDEEEDDEEEDEE EDEEEDDEDDG
18947	49315	A	19056	85	267	GHLSHAWCGTYKPWPSPKEQS RAWKKDGLLFPFPP/PLFPTGLK VRGRESF*SVELIRPQG
18948	49316	A	19057	1	1158	
18949	49317	A	19058	452	517	
18950	49318	A	19059	93	1069	YEGVTTSRLPELPRGCLVLQEQ ELVQMSGMEATVTIPIWQNKP HGC/SLRSVVRRTGNLPLKPCA RASFETLPNISDLCLKRCAPSSL PWL\AWLGFLAE*KGSQKARV\ RSDTRPLRHTWKPSPLIVMQRN ASVPNLRGSEERLLALKKPA/L ASPKAALLSCRTS*ATLRTKICK DSGKLMQLRLH*RQISYLQEVQ MSLLPLPCFGSSFHSTTSFCH**/ PSPRRQRWRSLSFHQSPCFVLP ALNVANQNTKLPAVRLKRMTA SLCPRPAALQDMMGILKGLFTG MKQSQDLNRSLLKEEDPAVLIS EVLRRKFALKEEDISRKGN

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18951	49319	A	19060	162	1410	GQASCPPPALGQQTPASSYTVQ IQTYAPSSPHPRQGPQGSSDPR GLRGAIPRGRQGGQV*QQGPRC RPPSSPVLPHIPQLSCCGHDGRD PEEGLGILELTLHHAHPWSPN SW*KDS\PSPHGEFFAHSEPHSR DQTSPMATTKEHVQPLPQASLS QPSLGIGCLVDWLRQLRTTQGS /PQDAAQDSTWERP*DAS/GKP WLL*PGVPTPGPPCQAKERKPP FMGNCPL*SRVPWPSRLPEEL/P AMPLAPPVAGEAAGPASSHQSL SPSQDPTPLPGADRREKERGG EGSSWPQTPRLTTHTTSPPEKQ QQIESPPIRLSSFKTGFHLASSGH SYAIKPNSTKAKEVGQVRVPR SHTIREQRQGKRPGEHRRTER DAKPQGEEDHQATVVSQKLG DRRLIKKQRTSVLSATAES
18952	49320	A	19061	1	340	GSVGS GTTLNQLGFWSSPGTSP LEPPCPWLDSHIFVPFWKDVA FGEGVCLPPGAPQPRRICPRRG QQPEFQQEEPETIPERTPADPGV LPPAFPGICLPRRLRAPDPGPA A*AVPPVADA*GSVGS GTTLNQL LGFWSSPGTSPLEPPCPWLDSHI FPVPFWKDVAFGEGVCLPPGAP QPRRICPRRGQQPEFQQEEPETI PERTPADPGVLPPAFPGICLPRR LRAPDPGPAA
18953	49321	A	19062	3	396	IPLASLHLALPGHQGRPPPGRLP SCSSQGTVPVPPRAGPYQAGCPG TAPAPAPASAPWSAPQASATG GTAHAAGPGSGGARSLPPARA HPPARCWQGRPLRSL*PSSVP ETGGPEKARLVKALSPNTAP
18954	49322	A	19063	563	1269	LEESTGRITHFKATLHCTMSNN LAWGGTKWLQESRVFFHIRRLP SDASAGPGCVYRVVPDGGSQG RPQGAPP*AAQA/GTPRGRPP GAPSALLPPPSGTSVGPGLQ QRRPPTGQEDSPTPEGFWKPR WRSHLATS LATRCTMQGEPAR AHPPGGRGPAASEERHQGRPP GGCFAALRYCATPRPDLSGRCP GTAPAPAPASAPWTRLRHQPL AAQLMQPGQVWWGPAASW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18955	49323	A	19064	1	1158	MELKAKARELREECRLSRCD QLEERVSVMENEMNEMKREG KFREKRIKRNEQSLQEIWYVK RPNLHLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTQPQYSSRRATPRHIIVRITK VEMKEKMLRAAREKGRVPHK GKPIRLTADLSSETLQARREW PIFNILKRIFSPQRGGTGRRM VKLTAEIEQAAQYTSAVRDRE LDLRGYKIPVIENLGATLDQFD AIDFSDNEIRKLDGFLLRRLKT LLVN\NNRIC\RVLDFQKV\K ERQEAEMFKGKRGALAKDI ARRSKTFNPGAGLPTDKKGG PSPGDVEAIKNAIANASTLAEV ERLKGLLQSGQIPGRERRLGPT DDGEEEMEEDTVTNGS
18956	49324	A	19065	2	431	RKLDGFLLRRLKTLLVNNRI CRIGELDQALPCLTELILTNS LVELGDLPLASLKSLTYLSILR NPVTNKKHYRLYVIYKVPQVR VLDFQKVKLKFNPGAGLPTDK KKGGPSPGDVEAIKNAIANAST LAEVERLKGLL
18957	49325	A	19066	92	303	NCFLVFSPARSTVGEFASMSSE ECI*MHVVFLFPLTLCVVSLEYR QEAEMFKGKRGALAKDIAR RSKT
18958	49326	A	19067	208	293	LLLLWWFPLGPTDDGEEEME EDTVTNGS
18959	49327	A	19068	22	904	ARNPWSTHASGWREATGFPQR GGTAGCTMGKLTAE\IEQAAQ YTNAVRDRELDLRGYKIPVIEN LGATLDQFDAIDFSDNEIRKLD GFLLRRLKTLLVDTTR\CGIGE GLDQALPCLTELILTNSLVEL GDLPLASLKSVAY\LYLRNP VTHKKHYRLYAIYKAPHVRVL DFQNVKL\IERQKAEKMSKGK RGAQLAKDIA\RRSKTF*FPGA GLPN*PKRKGGP\SLPGDVEAIQ ECP*QNAFNSGLKVERLKGVCC KSG\QIP\GRERRSG\PTDDGEE EMEEDTSHQTGS
18960	49328	A	19069	1	395	AINYNEKIYELRVMETKPDKA VSIIECDMNVDFDAP/LGYKEPE RQVQHEESTEGEADHSGYAGE/ LGFRAFSGSGNRLDGKKKGVE PSPSPIKPGDIKRGIPNYEFKL\G EAGGRFVAFSGEGQSLRKKGR

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18961	49329	A	19070	1	1108	
18962	49330	A	19071	353	693	GSLFLVKRREPER/QVQHEELTE GEADHSGYAGELGFRAFSGSG NRLDGKKESPSPIKPGDIKRGIP NHEFKLGKTPFIRNACPLVKKF EEDEAGGRFVAFSGEGQSLSKK
18963	49331	A	19072	2	1112	RLGAAAAAAAAAAGRAVGGVSSL HCPERSGVCQVVSIMFSFNMF HPIPRVFQNRSTQYRCFSLSM LAGPNDR/SSIGEKEGKIIMPLG PGTKLSRL*HYRIPMLFKLTNK NSGPHGRHCGVAGSLWA**GA SAYLPHWDDGRTYSLGRKAA WVQGGRSVNLSSGPLISNFQPQ SP\DFL\DITNP\KAVFEN\ALRNF ALS*PPGDV\AINYNEKILRNCV VMETQTPTRPVSHH*SVNH*TV EL*LLPPGATKEPRKDQVQP*G VRTEGESRPHSG\YAWKSLGFP RFSRSGS\NRLDGKKKGVEPS\ SPIK\GDIKRGIP\NYEFKLGKIT F/VSRNSRPLVKKVEEDEAGG\R FVAFSGEGQSLRKKGRKP
18964	49332	A	19073	1	415	SGGGRNRSATGSWVGTMAGIT TIEAVKRKIQLVQQQADDAEER AERLQREVEGERRARE\RGMK VIENRALKDEEKMELQEIQKE AKHIAEEADRKYEEVARKLVII EGDLERTEEPSLSWQESKCS\EL EEELKNVT
18965	49333	A	19074	1	421	
18966	49334	A	19075	3	388	
18967	49335	A	19076	1	1332	
18968	49336	A	19077	49	483	
18969	49337	A	19078	227	1030	AVSWVGTMAGITTIEAVKRKIQL VLQQQADDAEERA\ERSQREFR EERRARE\QA\EA EVASLN\RRIQ \LVEEEL\DAQERLGHCPCKKL *RS*KKLADESERRY*RLFEN\R ALKRLKEKIGTSREIPTSKPKPH HCRKEAD\RKYEEV\ARKLGDH LKEDLERTE\ERA\ELAESRC*EI DEQIRLIDQNLQCLSAEDKYS QKEDKWEEEMKILTDNLKEAE THAELAERSVAKLEKTIDDLED KLKCTKEEHLCTQRMLDQTL DLNEM
18970	49338	A	19079	50	864	
18971	49339	A	19080	1	1014	

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18972	49340	A	19081	1	1650	MGFHHVGGAALELLTSGFSQT QELQKFLFLLFLLVYVTTIVGN LLIMVTVTFDCRLHTPMYFLLR NLALIDLCYSTVTSPKMLVDFL HETKTISYQGCMAQIFFHLLG GGTVFFLSVMAYDRYIAISQPL RYVTIMNTQLCVGLVVAAWV GGFVHSIVQLALILPLPFCGPNIL DNFYCDVPQVLRRLACTDTSLE FLMISNSGLLVIIWFLLLISYTV ILVMLRSHSGKARRKAASTCTT HIIIVSMIFIPCIYIYWPFTFPL MDKAVSISYTVMTPLNPMIY TLRNQDMKAAMRRLGKCLKG PAVAVGPGPGPGDAEAAAEER RVKVSSLPYSDALVSDKKPPK EASPVPKASASSGATLRLLLLP GHGAREAHSPGLIKPFETASV KWENS\QDGAAWMQEP*\YSP PPRHK\HKTNPKPRTAFTTSQLL ALEGKLLQKQYLSIAEGADFFS SPNLTETQVKILFQNRRAKTKR LQSELEKCLKMAAKPMLPSSFS LPFPISSPLQAASIYAASYPFHRP VLPIPPVGLYATPVGYGMYHLS
18973	49341	B	19082	62	440	
18974	49342	A	19083	1	902	METEALMPGLGVAVAGAQVTL GFLALETQLPFTGHKRILRLFFS SPRDPPHVPSKGLKRKWGARR GRTFALREAEPQRLPSLSRAFG TLARPYARLVRPGNPVVPFLA GSAEAAARAAATCERQARTCPM PGVTVKDVNQEFVRALAAFL KKS*\VGKLVPEWVD\VKLA KHKELAP\YDENWFY\TRAAST AQAPCTIRGGAG\VGSMTKIYG GRQRN\GVMP\SHFS\RGSKS\VA RRVPPKPWRG*KMVEKGTKNC GPQNLTSPRDKRDFGTEFAGQV AAANKEALEQIHCFGLIKLAHS
18975	49343	A	19084	1	673	AGPDAEASERVPEGPEAPGAGP SRPLEPRPRASGRPGHGRCLGV TVK\DV\NQQEVRLHWAFLS KSLR/LRVS*TVPEWL\DTVQAG QAQKSLLPYDE\NWFYHAELAS TA\RHLYHPGSALGVGSMTKIY GGTSDETASMPKPLSARGFQEI WARRV\LQSPGRGLKMGGKRD QELRAAKLDTFKGQKRFWDRI RRNRLAVAYKEALEQTMAGV NKLPQFVKKKKK

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18976	49344	A	19085	1	427	HPVRFVHRGPH/VDFSLEVVVS QWYELVVFTASMEIYGSAVAD KLDNSRSILKRRYYRQHCTLEL GSYIKDLSVVHSDLSIVILDNS PGAYRSHPDNAIPIKSWFSDPSD TALLNLLPMLDALRFTADVRSV LSRNLHQHRL
18977	49345	A	19086	2	832	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHS HDGVLRPTVRPGT PPDFILKVVIDKHPVRFFVHKRP HVDFFL\EV\VSQWYELVVFTA SM\EIYG\SAVGRNLWDNSRSIL *GGRY\YRQHCTLELG\SYIKDP LLWFHSDLS\GIVIL\DN SPGAYR SHPGYGGR\DNAIPIKSWVSVTP ANTAILNLLPMLDALRFTADVRSV LSRNLHQHRLW
18978	49346	C	19087	69	206	
18979	49347	A	19088	312	438	
18980	49348	A	19089	635	826	QWISLWKCYKPEESGGQYLIFL KKSIFNDEFHVKN*AS*GKEK* TPLQTSNC*GILSPGPLP
18981	49349	C	19090	1	390	
18982	49350	A	19091	336	551	ARPLGSLASAPFPAPM*NVYPT GP*\YNADCPNVTAPVCASNGH TFQNECFVCVEQREFHYRIKFE KYGKCD
18983	49351	A	19092	76	309	KGRFVIALTFTT*HSNLEKSCSK ICKIK\NKSLVCKHQLAKSIQSPS **WNGMNN*FTTLFICCHNTEK TFIHCGKRP
18984	49352	A	19093	181	447	NKYQTDNIKLSNDLTIGHQTG NTTAHC\RYIMLFRSFQQMAITT ILS*YRKNIYPLWKETLKR MWQ RHREKVGSEK VNDIKILFHHW
18985	49353	B	19094	1	639	
18986	49354	A	19095	1	160	NLHSQMLWNQRR*LT SV*L EL LCKNPNRVATRDQLLCLSGHL GMGRILELGG
18987	49355	A	19096	2	456	YKNTITDYYEHL YAHKLENLEE MNKRRASTICTETIPKKLRRRD SSLTHSMRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGALW LPHFQTESDPGSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSCLITST

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18988	49356	A	19097	138	1193	LCFFGQHAPIYCSLRHSLLSYTR PASLICCLPGSHRYLEFVLLLLK HHRLHEDLNHCPIGSRSGRDVR SQTTEQHVIAAMPFPLRKLEPL HSGLYSHSCCSRYLAGWLALA TGGAARSPPAISILQPQEPSVTPS DTQRACGRSTEAFESKEQKASV RVETTVSFSCSIKVDGGLLEPKR ADTGWHGHHCRPASITPAGWV PARYLLYVFFSRQCVLSMVCGP QYTRGEIPGAVLKEECLPSLLT GRFDLSGRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGVLW LPHFQTESDPGSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSANTLLL
18989	49357	A	19098	3	247	
18990	49358	A	19099	1	1048	MQLKPMEINPEVSARCTATRRR RGRGRGSRVADRFGFAFFFAFA FQMLNKVLS\RLGVAGQWRFV DV\GLEEESLGSVPAPA\CALP ACLFPLTAQ\HENF\RKKQIEEL KGQEVSPKVYFMKQTIGNSCG TIGLIHAVAQ*SKTNLGFEDGS VL\KQFLSETKKNVPLKDRAKC F\EKNEAIQAA\HECRGTRKGQ CRVDDK\VNHFYSG*PTVDGP PSMNLDG\RMPFPRGPMAPS\Q GDTLLEGRFPRSCRRISPRREQR RSPASSARGFSCCKGSLNALWGG TWLISPLSPQHENILPPHASLKC FSTCETQAVLLFCQTRPSPQPHP RHLSTSRVHSCPLGHCGVSFRW
18991	49359	A	19100	57	450	VGDCLTSRGMSSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VPR LAP\RLHCSA/ASVSSEQS LVSPPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP
18992	49360	B	19101	307	390	

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18993	49361	A	19102	431	1267	SGTRTTSTAARTSRTWRS*TPLL ACTPRPCGSAKLATATSRTCIRP *SPSATQTLTVTKVPLPKDSTG AADPPQPHIV/GAQGMVYSTPG IQSPDQQAALARHNPARPVFVE GPFSLWLRNKCYYHILRADLL PPEEREVEETPEEWNLYYPMQL DLEYVRSGWDNYEFDINEGKE QHVTI/LCSSGEC*ILRRRQNV*R LLDW/LAGKALTSPTCAPKITC VPLALPTYCSGQNLNSSCSMT SVSDHLSPVPTLLSTISKAHGTP PPNTKVVTKVTVRQ
18994	49362	B	19103	49	691	
18995	49363	A	19104	89	95	VGDCLTSRGMSWVQATLLARG LCRAWGGTCGAAL/SQEPPSLR SLASLPRGLHCSAAAHSSSEQSL VPSPPEPRQRAHQGSWCPLR/VP VLGQGAGLGERGQGRAFL/LD GCRNLRTTSVRKRGPH/VDLFY LALRKMREYGVVERG/DLAVYN QLLNIFPKEVFRPRNIIQRIFVHY PRQQECGIAVLEQMENHGVMP NKETEFLLIQIFGRKSYPMLKL VRLKLWFRPMNVNPFVPRDLP QDPVELAMFGLRHMEPDLSAR VTIYQVPLPKDSTGASKIPKPH IVGI/QRSPDQARPPARHNPS\R PVF/VEGPFSLWLRNKVCV/YY HILR\ADLLPPEERVRA*SKACV GAGEWAGTTLRVHGRGWRRE TERALASDPACTPHLG\EEVEET PEEWNLYYPMQLDLEYVRSGW DNYEFDINEVEEGPVFAMCMA GAHDQ\ATMAKWIQGLQETNP TL\AQIPRGLSAFAGSTRKLQTS SAGLEEPP/HCPRTTKEEDDNLQ RQSRAQS*SPCAGIRAQQQDRA GLESAAGRVSR

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18996	49364	A	19105	1	1199	EFGALRRTRLGSSFPRRRDSSA MESYDVIANQPVVIDNGSGVIK AGFAGDQIPKYCFPNYVGRPKH VRVMAGALEGDIFIGPKAEEHR GLLSIRYPMEHGIVKDWNDME RIWQYVYSKDQLQTFSEHPVL LTEAPLNPRKNRERAAEVFFET FNVPALFISMQAVLSLYATGRT TGVVLDSGDGVTHAVPIYEGFA MPHSIMRIDIAGRDVSRLRLYL RKEGYDFHSSSEFEIVKAIKERA CYL\SINPQKDETELEKAQYYL PDG\STIETGPSRFRAPPELLFRPD LIGEESEGIHEVLVFAIQKSDMD LRRTLFSNIVLSGGSTLFGFGD RLLC*VKKLAPKDGRIRISAPQ ERLYSTWIGGSILASLDTFKKM WVSKKEYEEDGARSIRHRTF
18997	49365	A	19106	1	3288	MPSGGDQSPPPPPPPAAAASD EEEEDDGEAEDAAPPAESPTPQI QQRFDLCSRLNMDEAARAE WDSYRSMSESYTL/EGSGLWLP RGLFGHPGHCTGLLLLLRSGCV RSQPSDRACR*EK\CHSSHIEFF NKMKKWEDMANLPPHFRERTE RLERNFTVSAVIFKKYEPIFQDI FKYPQEEQPRQQRGRKQRRQP CTVSEIFHFCWVLFYAKGNFP MISDDLVSNSYHLLLCALDLVY GNALQCSNRKELV
18998	49366	A	19107	56	3552	GPAAQGCAMPSGGDQSPPPPP PPAAAASDEEEEDDGEAEDAAP \PAESPTPQIQQRFDLCSRLNM DEAARAEAWDSYRSMSESYTL EGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSE QSLIEFFNKMKKWEDMANLPP HFRERTERLERNFTVSAVIFKK YEPIFQDIFKYPQEEQPRQQRGR KQRRQPCTVS*NFSIFCWVLFIC AKGNFPH*LSDDLVSNSYHLLLG ALDLVYGNALQCS

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18999	49367	A	19108	1	1193	GRRRRFWWRKRIGGGGGGMA MPAEAPWMASFNGLSLPPG WLLPPPSDRNPPLQPSSRPPLC VRMWMNAFTPLISLFFWASLV SSGARRLHPIQPQPCREQAPMP APGAARSAVAASMSDCTVAGP CTGSHTPCHSTSDSQSP/CGGVG SSLVV*AERSCAQCRMSPRKGH /CCCCCCCCCCCC/SCCCYCHYC CCYCCCCCCCCCCCCCCCCC CCCCCCCCCCCCCYCCRCYCCC CCCYCCCCCCCCCCCCCCCCRC CC*HYCCCCCCCCF/GCCCCRYC CCCRYRRCYFCCCCCCCYCY CCC*RTAHAWPSMNKSQCVLP/ CICKVPLGRLAVTTGCPGFG*G GCWEDCMFPAKGPSIRLEQWFS TTAILLPSGPGDFWQYLGTLV VTTREEVLLESGG
19000	49368	A	19109	1	762	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILP/L FADRVPKASQKIFVALS/TGEKG FWL*GVPCFHRLFP/GFYVSRGG DFHTAINGTG/GKSILWGENLK DENFILKHTG/PGI/LSMANAGP/ NTNGSPVFLTSCTA/KTEWLDG K/HVVFG/KVKEGMNIVEAMER SLGPRMGKT/SNKFTIADCGQL RIKFDLVFYL
19001	49369	A	19110	95	240	LHSEITVCL*GSEHHFFENGTYI PHRSCHDPLEARAEDFL
19002	49370	A	19111	1	1644	
19003	49371	A	19112	237	632	AIGFPSYSSMQLVNIFGLLNLFSL ISSFRHQG*HS*ELPYPLEPGA EDFLR*GPLAGHGHTGSQPFFC RVSEA/CGSHLVNSSRAALKRW AGV*RKIWPRGSPETPRNLKDL SVLEYENTPDTSGKKALED

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19004	49372	A	19113	274	2704	GISVLHGCGRYRFQPRGMAAPGP FSEKPVPGCDAGDLQTPALSSW TQTFIISHEQGIKFLNQRWSCWS KERNHGHCRVRGHVTAAQCDL FGNGLKHNLDLHIHDRNDASK NVKKSTNYGKMSFYTYCECTP TGEKLWDHNQHRKIIGYKPASS QDQKIYSGEKSYECAEFGKSFT WKSQFKVHLKVPTGEKLYVCI ECGRAFVQKPEFITHQKTHMRE KPYKCNECGKSFFQVSSLFRHH RIHTGEKLYECSECGKGFYNS DLSEKIHTGERHHECTDCGK AFTQKSTLKIHQKIHTGERSYIC IECGQAFIQTQLIAHRRHSGE KPYECNCGKSFISKSQLVHQ RVHTRVKPYICTEYGVFSNNS NLITHEKIQSREKSSICTECGKA FTYRSELIHQRIHTGEKPYECS DCGRAFTQKSALT VHQRIHTGE KSYICMKCGLAFIRKAHLITHQI IHTGEKPYKCGHCGKLFTSKSQ LHVHKRIHTG\EKPYMCNKCGK AFTNRSNLITHQKTHTG\EK\FI CSKCGKAFTQRS DLITHQRIHT GEKPYECNTCGKAFTQKSNLNI HQKIHTGERQYECHECGKAFN QKSILIVHQKIHTGEKPYVCTEC GRAFIRKSNFITHQRIHTGEKPY ECSDCGKSFTSKSQMT\EH*AV HSG*KPYV\CAECGKA FSGRSN LSKHQKTHTGEKPYICSECGKT
19005	49373	A	19114	3	180	
19006	49374	A	19115	95	433	PVLRTHPGPQSLPRVPGVPCGG LLEPLSRAEVSPRLGLRRDLLG GMAPSGSSTVFLALTIHASTW ALTPHYLTKHDVERLKASLDR PFTNLESAFYISIVGLSSLGAQVP
19007	49375	A	19116	196	706	ISISNETKDLLLLAAVSEDSSVTQI YHAVAALSGFGLPLASQEALSA LTARLSKEETVLATVQALQTAS HLSQQADLR SIVEEIEDLVARL DELGGVYLQF\EEGLAETTALFV\ AATYKL\MDHVGTEPSIKEDQV IQLMN\AIFSKKNFE\SLSEAFSV\ ASAAA VLSHNRYH

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19008	49376	A	19117	275	2192	MVVSPQGSSTVFLLALTIHASTW ALTPTHYLTKHDVERLKASLDR PFTKRLCFSWFTTCVTT*H*LFP TV*KACTYIRSKSLPCLPQIAKT CSKTLCLPILS*ISISNETKDLLL AAVSEDSSVTQIYHAVAALSGF GQVREGVSG*NKTCHSLGFYSL PSRTVDSGSCISFLLLLDIQHISV LLWQDLVARLDELGGVYLQFE EGLETSTAVALLPSPQQRKRNSCI SHFFQDQVIQLMNAIFSKKNFE SLSEAFSVASAAVLSHNRHPR NKILCSCSLCCNK*FFIYFQLQV TNVLSQPLTQATV\KLLFVISM F/RT*VLAKPIVILNRDVFELNF MNVKFYICM*IPEHPPIDLATVF SIFL*LRVKISTDIFSACSQRYTD PL*RLTLYASFRVTYPKAKAGT FIADRDSMLGPGRIKLKLSDERL YYSSI*TFVRLHNQKTGQEVVF VAEPDNKNVYKFELDTSERKIE FDSANIIY*VSPTSLPLCFYRLSL FF*ADVVINPGIHGCPYWEHGIL KSSWCVFRQHLEFREPEKSWHG LCCFPKF*CLFNLFLPIIQWILT FLNRRASLCFI*LDVMTPLLA MLGLMYVYWTQLNMFQTLKS LAILG\SVTFLA\GNRMLA\QQA
19009	49377	A	19118	3	413	PRKEAPSTFLSQ/NLFTPKQEIQ\ HLF\REPEKR\PPTVVASNTFTALI LSP\LLLLFALWIRIGAN\VSNTFT FGLPST\IFHWG\HAAMLG\LSM YVY*TQAQPCSQTLEVPWPILG QCDRFLAGQSGMLAQRTAVQE NQHN
19010	49378	A	19119	2	535	GRVDPKAKKEAPAPP*SLKPKA *AFKGPRKAVLK\GV\HSPQKA GRSRTSTPPFRAGRKTADSRR PAPKIILRKSRVPGGNKLD\HYA \\IKFPADH*SASAVKKIEDN\NT L\VFIVD\VLKANKH\QIKQGCE RSLYDI\DVGGQGHWPWRPD\GE KKAYCSTWLLDYDGFGMFAN QNWGSI

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19011	49379	A	19120	159	801	GAAGRRRLPEGEDEASAWR RLARCLMPKKNRIAYE\LLFKE G\VMVAKKDVHMP\KHPE\LA VKNVPQPFMVMKGHAGLSSPR G\YVKGTSFA\WRHFLTGTLTQ* GVSQYSPWITLHLAPGRFVPCP PLRPVARPRRMGRP\RPKKVLG GVEATWRGFHKGGEV\DRGYL TRRSACCQLGA\DKKSRGWGL GSSNPNFQFRG\GF\GCGRGQ\PP
19012	49380	A	19121	334	989	EPPAETLPVAARDPTGLSPTYLS SHKHEKFQQVRHFPVLLGYPIA SSGASPEVRQRRTTFFRFRPGES LCGDMKLLTHNLLSSHVPAGG SLPFSGGMVGRGPVLA*TP/LAL QATEGR\ICPVEINPQLRGRVMI P*KWKWS\AF\LEAGPDKLAV*I PGARKGPG*GDMRENEEFS*GP WHHLACWEVGSD*EGTL\QVP GNLGRYFSPFKPRGSPNMLAE
19013	49381	C	19122	61	177	
19014	49382	A	19123	4	191	
19015	49383	A	19124	1902	2187	
19016	49384	A	19125	55	340	GELVLKALSAFIRAFRCPAEGS DPVGRAADP\SPAPRGISQGGG ACGSPFLPGPITESLPLPPGLGSG SELPSLYLVSGIYGGVRRGPPA RLEA
19017	49385	A	19126	1228	2447	TSQGSSPPAHIGRWSSNHKKGL GSSFSQSCCKAEALVKNAWPPT QA*VSICCFEQDLGRGQQKGKS GGKWQKTAESREAVTECPACY RAARCRAAGDRGLRAEGAAAG HTASPSAYRVRGERGHRDMHS ASARLSHPGETNMLGLAEPVS TSH*SHPFQSQ*LP*QAGP**EM/ PLPPSARDSSDLCSG\SPSHDLLP LPNTVIFWGPSSPDWQPLPLSP FCVSAAGSPCSPLLQGLEPGGI STSCPPGPAPYIDFGAVSGAGQS AAQRGAHFPAAMAERPSAGTS GSSGISGAIAATVVSVAEAGEQ AVKCLAEGSTRQTGQPSRRAPS RGCPAPGAPPGRAAPPQAPPAA PAAGGGRGPPAAPRAPAPRPQP QGAPRPVSPCRGTGAAPPPTLV WGLSSEAEG

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19018	49386	A	19127	164	563	CEAALKGDSGGSPWPDEKPKE GVKTENNDHINLKVDGAEMVT VV\QFKIK\RH\T\PL**T*LKAYL* TDRGLSMRQIRFRI*PGNPIN*K QTHLHQLGNGRIEDYNLMCFQ QARPGGVYLKKGTCFFYSKNS VSF
19019	49387	B	19128	166	426	
19020	49388	C	19129	76	285	
19021	49389	A	19130	3	179	
19022	49390	A	19131	93	172	
19023	49391	A	19132	1	2742	
19024	49392	A	19133	1287	2571	ILRQWLLASPEEKTGRPALASG SAETLSWLRAQGREPRGPA*SA VGAHRTRTAPGSDPRCGILPS GRSPSP/PARLFLASVPATI*AM TPSPTRLPAWPPPCRG/PDASPE VVRKGGKAGQPRGSPQPWRS AEEIVEVGLLPLTPRALLFPQVP TALPAVYHFLAACEGICPHSCA APSMIELWDFLIQQHQPEKAVA CTTTHIPGLRISALNKHRAWGG TDDVAASEMPLGAAGAEPW D/VE*LLPAALKIPTGHTATTSW GAGP*SPQGSCKG\SGVGS GATADLLAPTAGVGTSTRTACGGGT QFMSEGAPGVMNNGSPDWSST QFMSEGAPGVMNNGSPDWSSN LSQPQPMHLLYLTTWFLERPM CCPDTTALTQTLVPVFSYPVCT SHIRQNPHLHFLRAPSPHYTTA CSFEPQRFLEQQQDLL
19025	49393	A	19134	31	202	ILITYIIKLINQADFSTP*FMSHLI VSSRILCTEKWNFHFPPHF*D*Q QTFCTLQFL
19026	49394	A	19135	410	867	LLTLSRTTPLMSLGFPKIPKMIN RPRQSSPIKLQNSSLSNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAPNRKAWCLVILVVVSHSS TPFSWQKVMKWIKKISFRVFAA GQGLLGYSNPRYSFSF

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19027	49395	A	19136	111	743	VITILTPMLADRTTRRIERPPKKK GTTSLGQRKWLLTQDWPSVYP VA\HPFKPSAVPLPV\RMGYPV KKGRAHGDRRGNLELLKISQFF WILTSCSNLKSTCEALKDFACTG VGQPHWDSSGRKKMLKKHFSN WKFGQHLDLCFHQGPSGSGNP RARVVVLKSKAFLV*I*HDHAK KTLITLVGERYCKTPDVLTIKQ NRWPLRSQITIMPVYL
19028	49396	A	19137	305	2291	YLDAEKMKGKASQQLALKDSK EVPVVCEVVSEAI VHAAQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFITFCQEKGVDEWLTTTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPPVESKP CDLSNPESRVEESSWKSRFDK LEEFCLNIGEDCLGLFIIFGMPG KPKDIRGVVLDVKSQMVRS LPGGKAVAQFVLETEDCVFIKE LLRNCLSKKDGLREGGASPGSL RLAAPGPPLTLNAACPLRLAVL AAMAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLTPESSGK YRFISGEVLCRITGCFTGVRVEA KDLFGGCCSNPNEVMVTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVK*GVPMKEG NLELLKIPNHLTPVAIKKHCE ALKDFCTEWPAALDSDEKCEK HFPIEIDSTDYVSSGPSVRNPRA RVVVLRVKLSSLNLDDHAKKK LIKLVGERYCKTTDVLTIKTDR CPLRRQNYDYAVYLLTVLYHE SWE\TEEWGKK*D*SRHGKSIY GENSSSERKYPGERFSR*KLLR KNMGN*LKKSS/CGTKEIEEYK KSVVSLKNEEENENSISQYKES
19029	49397	A	19138	3	233	
19030	49398	A	19139	1	256	
19031	49399	C	19140	5	114	
19032	49400	A	19141	8	444	TTDKEQ*EL*LLLDTE*GSYTK CHTDSLRY*TSSTSAEDRDDSL LRRSGSYRDL*E*IPYSCRLDKD DSTDCIKLYEQILAE\NDKLKAQ LHDTNMELTDLKLQLEKATQR QERFADRSLLEMEKRERTALQR RISEMEERLQM
19033	49401	A	19142	1	287	

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19034	49402	A	19143	211	346	
19035	49403	A	19144	175	3381	EDPAAGEGMKMADAKHKRNE QLKRWIGSETDLEPPVVKRQKT KVKFDDGAVFLAACSSGDTDE VLKLLHRGADINYANVDG/LSH ALHQACIDDNVDMAKLLVDNG ANINQPVNDGWIPLHAAPSCGY LDIAEFLNGQGAHVAVNSEG DTPLDIAEEEAMEELLQNEVNR QGV DIEAARKEEERIMLRDARQ WLNSGHINDVRHAKSGGTALH VAAAKGYTEVLKLLIQAG\YDV NIKDYDGWTPPLHA\AAHW
19036	49404	A	19145	1	2406	
19037	49405	A	19146	1154	1365	
19038	49406	A	19147	1	293	MGVSVLDFSHSDKCEVASRFAS GMPEPTNIVLPKLEVADTLGGC TTIPESDLEERSVEQDSTELFTN HRHLTAETPR/PW*RLDGLHKQ VSPLQGVSE
19039	49407	A	19148	3	1290	VSQATDVEVGTDLVPSVTVKV TLQNRVILQKAKLSVYVQPPLE LTCDQFTFEFMNRNPDGIPRVIQ CKFRLPLKLCPLPGQPSKTASHK ITIDTNKSPVSLSLFPGFASQSD DDQVNVMGFHFLLGGARITVLA SKTSQRYRIQSEQFEDLWLITNE LILRLQEYFEKQGVKDFACSF GSIPLQEYFELIDHHFELRINGE KLEELLSERAVQFRAIQRLLA RFKDKTPAPLQHLDTLDDGT QVIALADAVEENQGNLFQSFTR LKSATHLVILLIALWQKLSADQ VAILEAAFLPLQEDTQELGWEE TVDAASHLLKTCLSKSSKEQA LNLNSQLNIPKDTSQLKKHITLL CDRLSKGGRLCLSTDAAAPQT MVMPGGCTTIPESDL*ERSVEQ DSTELFTNHRHLTVETPRPEVSP
19040	49408	A	19149	48	642	WNSALREPRLNGADMAKSKN HTTNNQ\SRKW\PRNGIKKPRSP KIRILLKGVAPPSFL\RNMRFAQ ESPNKKGP*RRQANKLPRAMS ATLPRAIKA\LVKPQGGSLSPKIP\ KGVSSRKLDSTCLTFAQPQALG SVARCP*LPRGPRLCPPKAKAK AKAKPRPKPRPRAKDQNGGPG LQPQASVPAQ\APKRTQAP\TKA SE

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19041	49409	A	19150	1953	2447	WTPQYMDTEYKNGPWMM EK KVWLD P/NETNEIPNANFRQQIR KLIKDG LILRHRKPVTVHSRAQ CWKSTLARRKGRHLGIESKKID RHMYHSLYLKLGKGNVFKHKRI LTEHSHK LKADKARKKPLADQ AEARGSKTKEARKLREEHLQT KKEEIIKTLSQEEKAKK
19042	49410	A	19151	1	693	MAVMEKLYWVNREESYASLR VHLPICNATTMSMLSLQKRLAS SVLR CGKKKVWLDPKETSEIAN ANSHQWIRKLIKDG LIIHKPVTV HS/*ARYR/KNTLACQKGRHMG I*KATANARMPEKIMWMR/RM RILCQLRRYCD SKKIDHHMYH RRYHESKKVDRHMYHSLYLKV KGNVFKNKRILMEHIHNLKAD KACKLLADQAETRRSKIEAR KHREEHLQAKKEEIIKTLV
19043	49411	A	19152	34	280	EVIHAAIG EKKGSY/NA**PWVE EQLTRQPLIHHQPASLH SVY/RC RYHSLYLKV KGNVFKNKRILM EHIHKLKADKARKKLLA
19044	49412	A	19153	2	625	HEAMSMRLRLQKR LASSVLR CG KKKVWLD PNETNEIANANSRQ QIRKLIKDG LIRKPVTVHSRLR CRKNT\LAR*KGRHMGIGKRK VPANA\RM\PEKVT\WMRENEG FCRR LASEDTRES\KKIDRPHVV TALYL\EVKGNVFKNKRIL\ME HIHKLKA\DKARKKL\AD\QAE ARRSKTKEATKRREERLP/ARPR KREII*TLSKEETKK
19045	49413	C	19154	154	291	
19046	49414	A	19155	3	253	
19047	49415	A	19156	2	474	FKDKQN KPTGFALGSIEGRVAI HYINPPNP*V*LCQLADFTGLFL TKEDLHEPLSFS AKDNFTFKCH RSNGTNTSAPQDIYAVNGIAFH PVHGT LATVGS DGRFSFWDKD ARTKLKTSEQLDQPISACCFNH NGNIF/AYASSYDWSKGHEFYN PQKKK

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19048	49416	A	19157	97	1728	IRGFFRGSQGSFYRRLKEASGS WDFCPRSWPSSLRARSQSQTPE TLLLPAQVFRRSETPMFKMSLF GTTSRFGTSGTIMFGSAT\TDNH NPIEGY*K*HSFSLMDSIG\CSCL FSPPTLPGNFLIAGSWANDVRC WAEVQDSGQTIPKAQQMHTGP VL\DVCWE\SDGGSKVFT\ASCG \KTAKMW\DLRQ*PRRLQIAQH\ DAPV\KTIHWIKAPNYSCVMTG SWDKTLKFWDTRSSNPMMVL QLP\ERCYCADVIYPMVAVATA \ERGLIVLIQL\ERIQPSEFRRIES L\KHQH\RCVAIF\KDKQNKPTG F\ALESIQGRVAIHYNPPNPAK DTFTFK\CHRSNGTNTSAPQ\DI YAVNGI\AF\HPVHGHPCNCGD LDGRFSF\WDI\DARTKLKNFRE QLDQP/LSSAC\CFNH\NGKHILP YAS\SYDWVKGDH\EFYNP\QK KKFTFFPA*MQAEELKAPGNKE VVAGRTLGSAQSLFLLHSGLIS VRIWAPNLVGVVSPWTMEFQP PGENDVIVQQLESPRRPAGDLP VFSIPTGLVAEVFSGKPKGGLK
19049	49417	A	19158	1	1254	
19050	49418	A	19159	1	921	
19051	49419	A	19160	1	1386	
19052	49420	A	19161	49	731	

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19053	49421	A	19162	61	1533	PLKAKMGKEKTH\NIVVIGHV DSGKSTTTGHLIYKCGGIDKRTI EKFEKEAAEMGKDSFK\FAWV LDKLKAERERGITIDISLWKFET SKYYVTIIDAPGHRDFIKNMITG \TSQADCAVL\IVAAGVGEFEAG IS\KNGQ\TREHALLAYTLG\VE QLIVGVNKM\MDSTEPPYSQKRY EEMWLREVSTFIKKIWLQPPTQ *HFVPISWFGIGDNMLEPSA\N MPWFKGW\KVTRKDGNASGTT LLEALDCILPPTPTDKPLR\LPL QGVH\KLGIGTVSSAPMET\GF SNPGMVVTFAP/SSTVTTESKIL SKMHP*SFEVKLLPGDQCGPSM SKNVFCQGMFRRGKRLLDGQQ KMTPPNGKAAGLHWSRVIL\N HPRPK*GAGPMPYLD\HTGS HLHAKFAELKE\IDRR\SGKKL EDGLKFLKSGDAAIVDIVPG\RP MCVESFSDYP\PLGRFAVRDMR QTVAVGV\ISKAVDKKGCWEL GKVTKVWPRKAPEG
19054	49422	A	19163	1	514	EFGTRAKKEAPAPP*SLKPKRK AFKGPRKA\VLKGV\HSHQKEE DPARSPTFPGGPKTLR\LRRQP\K YPRKSRVPGETRLDHLCLSI\NF PLTH*VLPMKKIEDNNTLVFIV DVKANKH\QIKQAVKKL\YDI\D VAKVNT/LWIRPDGEK\KAYVR L\APDLPIAFGMFANKIWGFI
19055	49423	A	19164	433	1015	GLISNLDMASRGAS*PTGPD TG NKICQFKLSTSGESPAVCKSSLV LRFVKGQF\HEFQESTIGAAFLT QTV\CLDDTTEKFEIWDTAGQE RYHSLAPMYRGAQA\AIVVY DITNEESFARAKNWVKELQRQ ASPNIVIALSGNKADLANKRAV DFQ\EAQSYADDNSLLFMETSA NTSMNVNEIFMAIGKINISF
19056	49424	B	19165	1	2511	
19057	49425	A	19166	2	360	

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19058	49426	A	19167	125	211	FRPGSPRQPRAQPISAPDCTRA MVGRRAL\IVL\AHSERTSFNYA MKEAAAAA\LKKKGWEVVE\S DLYAMNF\NPIIS\RKDIT\GKLE GPLRTFQYPGRSLFLAYK\EGHL EP/EIICGLNKKKLEAADL\VIFQ FPLAVGLEVPAIL\KGWFEPVH KESFA*HFTAGHVMDKGPFP VKKAVAFPFTTGG\SGS\MYSC QGI\HGDMNVILWP\IQSGILPF LGLPKSLDPQLT\YSIWPPLPAR RPEFSILE\GWKK\RL\NIWDET PLYFAP\SSFLDNFQAGF\LMK KEVQDEEENKKF\GLSVG\HHL GKSIPTD\NQIQS*KRECTVHYT RDSHKVAAGAAQLTESLVPAR VAPATTSPANQRPGHLHSHGR
19059	49427	A	19168	2	331	WVDSQQK\RYVPVKGDHVGIV TAKSGDIFKVDVGGSEPASLSY LSFEGATKRNRPNVQVGDLIYG QFVVANKDMEPEMVCIDSCGR ANGMGVIGQDGLLFKVTGLIR
19060	49428	A	19169	145	350	QEFHLSSEPSIRLGRSLYHIHHL FASKKVLD*QWLDQSL*VCSW EHMRRSQ*GIFSRLANRGFQNG DC

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19061	49429	A	19170	1	1863	MAVAIRLSADTQWEDSPGKSIL ELHMSCTKIPERCEADKKESTS SWCTRKIRFRMDLEKECKVLLS GGGGSRMGSQKGDGVGRWSSP RVGLPSSQTLLRPPPTDFHIAPL SKARQHLLVSVSVLFCFSAPLD VQPLKVLDECQNQRACHLLVN SRVFGPDLCPGSSKYLLVSFKC QPKQMFTQQGGPGPVLSIGETQV STSSVTRSSSPVGPDIHCEFHTN MCKIPDELKKNKTVCEDQELKL HCHESKFLNIYSATYGRRTQER DICSSKAERLPPFVFTRYVCFLY APVSSIANPVKGCFLGKKQDC LSYSALQVLSRRCYGKQRCKII VNNHHFGSPCLPGVKKYLTVT YACATLSSMGPIAEVPPEAKK VTLSTSLDSSSGRMEDGRLDTG HTEVPVTSGLFIRVLNKKQNFS LQIRCSFGRGPGKLRHCWAGA. AIALGTEYILVKGDQVTGIVTA KSGDIFRVDVGGSEPVS\SYLS FEGATKRNRPNVQVGDLIYGQF VVANKDMEPEMVCIDSCGRAN GMG\VIGQDGLLFK\VTGLN*E SLLASQICE/ISIQEVGKL\LPLEI VFGMNGRIWG*GQKTHPSQTLI LA\NIL\EACEHMT\SDQRKTDLP
19062	49430	B	19171	29	82	
19063	49431	A	19172	1	427	

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19064	49432	A	19173	1	1548	MTMAAAAVVARGAGARAATA AALRGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMLRRIKEDED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRLSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVRKTLDMIK KIADDKYNDTFWKEFGTNIKLG VIEDHSNRTRLAKLSRFQSSHH PTDITSLDQYVERMKEKQDKIY FMAGSSRKEAESSPFVERLLKK GYEVIYLTEPVDEYCIQALPEFD GKRFQNVAKEGVKFDESEKTK ESREAVEKEFEPLLNWMKDKA LKDKI*K/ALWVSSAALTESPVL LLVAQPVRDWS\GQHWERIMK AQAYQTGKDISTN\YYA
19065	49433	A	19174	37	266	WADRAAGGVRILTQGCVGGG GSCDRRGLETSPARTPVRALWV LG\LCCVLLTFGSV/READDEV VDGT\VEEDLG*KYEKDQVTDD EVVQREEEA\QLDGLNASQIRE L\REKSENFPP\QAEVNRMIETLF IQFHCIKNKEIFLERLISNSSC\AL DRLSLISLT\DENALSGNEELTV K\IKCDKEKNLLHVQHTGVGM T\REELVKNLGTIA\KSGTKRVF *TKRPEA\QEDGPSQPS*IDWPS LGVRF
19066	49434	A	19175	233	664	RAPEQSSGVSAAEQERVNPAG WPCSVAPTCPSPRSAEPARCT* GKEEGG/CEDSDRADSGSPFQE PRYPSSGPFPIQASFPCLLV GIRGHSTILQYRGQEHVLF TG RCLLVDPDLLVSVSKKSPNAA RDQPARYPRGPL

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19067	49435	A	19176	1	672	MAEAGPKPQRTLMLWAWESVL SQRKPREAGRLSEGCVKATGTP GFGWQARPDQKEHRLDGRVID PKDRHGLVKDTEPRLNEQSLCG GLNPEATEEKIREYLASLGRRR PVKKVLEKKFHTVSGS/KCGPQ VPPSWSETYRTRA*SGDQLGTP AAPNPRWPME*EQEIEAQRSSA HSGARAPWPPWPPRDPGPPGNP GPKFMVSLSCWNISSLRAGLLY AGCGCSP
19068	49436	A	19177	3	684	RHASARKKYNPPSWFHRGLPPP EDQEDEMVSVEELE\PITLTSSA LKPSDRMTMSSLGERACCRDY QRLGLGTLSSSLRAKSEPRIS PVNRMYAICRSYPGLLIVPQSV QDNALQRVSRQYRQNRFPVVC WRSGRSKAVLLRSGGLHGKGV VGLFKAQNAPSPGQSQADSSSL EQEKYLQAVVSSMPRYADASG RNTLSGFSSAHMGSHGKWGSV RTSGRSSGLG
19069	49437	A	19178	1	341	
19070	49438	A	19179	1	3710	MVSGARAAAAAAAAAAAAAER TRGVPGHPDSTGRLPAAHQQLQ RGLLFRQLGITNVLSLVCATLM EHEVLFLRSYQQLTDACRSL ALLFPLRYSFTYVPILPAQLLEA LSTPTPFIIGVNAAFQAETQELL DVIVADLDGETVTIPECVHIPPL LEPLQSQTHSVLRMVLDPLEL VDLAFPPPM/HDKELRLFHQLL QGYLWCLHV\VCIHPEPVIRFH KAAFLGQCGLVEDNFLMNVLE GMAFALFVLECGVP
19071	49439	A	19180	1	303	
19072	49440	A	19181	14	942	TKLTGSRG*LA*NPCM/HNNCE SCVDLLFVRGAGNCPECGTPLR KSNFRVQLFEDPTVDKEVEIRK KVLKIYNKREEDFPSLREYNDF LEEVEIIVFNLTNNVDLNTKK KMEIYQKENKDVIQKNKLKLT REQEELEEAL EVERQENEQRRL FIQKEQLQQLKRKNKQAFD ELESSDLPVALLAQHKDRSTQ LEMQLEKPKPKPVTFSTGIKM SVGITLCPAEEHTFNDERSFNLS SSWSKFNKPPSTLPFKVLDEER LVELKVPNTLITKLVPFAISPCS EAIQDHPAILLAYKKTTFWRLQ
19073	49441	B	19182	49	456	

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19074	49442	B	19183	53	333	
19075	49443	A	19184	2	208	VYPELQITNVVEANQPVTIQNW CKRGRKQCKTIPHL*FPYRCLG EPAGRGAGVDWGPGLGRKRG CSC
19076	49444	B	19185	51	300	
19077	49445	B	19186	148	3568	
19078	49446	A	19187	1	3411	
19079	49447	A	19188	2	2416	NSRGAACAGPRETAAVAARAE QGRGGSHSHSSALGAPRRVAM LPGLALLLLAAWTARALEVPT DGNAGLLAEPQIAMFCGRLNM HMNVQNGKWDSDPSGTKTCID TKEGILQYCQEVYPELQITNVV EANQPVTIQNWCKRGRKQCKT HPHFVIPYRCLVGEFVSDALLV PDKCKFLHQERMDVCETHLHW HTVAKETCSEKSTNLHDYGML LPCGIDKFRGVEFVCCPLAEE DNVDSADAE\DDSDVWWAG ADTDYADGSEDKVVEVAEEEE VAEVEEEEAD*LTRTDEDG\DE VEEEA\EEPQYQEATERTT\SIATT TTTTTESVEEVVREVCSEQAET GAVPSNDLPLVL*CD*REVCPI LRRMWRQPEQL*HRRVLHGRV WQR\PTTAASTPDA\VDKYLET PGDENEHAHFQKAKERLEAKH RERMSQVMREWEAE\RQAK NLPKADKKAVIQHFQEKVESL *QEAANE\RQQLVETHMARVE AMLNDRRLALENYITALQAV PPRPRHVFNMLKKYVRAEQKD RQHTLKHFEHVRMVDPKKAAQ IRSQVMTHLRVIYERMNQSLSL LYNVPAVAEEIQDEVDELLQKE QNYSDVLANMISEPRISYGND ALMPSLTETKTTVELLPVNGEF SLDDLQPWHSFGADSVANTE NEVE\PVDARPAADRGLTTRPG

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19080	49448	A	19189	1	2355	MKSIFTSEISSVLIFVNPEPGRVV SFLGSGRREHAEERARGPRETA AVAARAEQGRGGSHSSALG APRRVAMLPGLALLLLAAWTV WALAEVPTDGNAGLLAEPQIAM FCGRLNMHMNVQNVKWDSDP S\GKTCTCIDTKEGILQYCQEVYP ELQITNVVEANQPVTIQNWCKR GRK\QCKTHPHFVIPYRCLVGEF VSDALL\VPDKCKFLHQERMGC FAETHLHWHTAAKETLQ*RRS TNLHDYGMLLPCGIDKLRGVEF VCCPLAEESDNVDSADAEDDS DVWWGGADTDYADGSEDKVV EVAEEEEVAEVEEEEADDDDED DEDGDEVEEEAKEPYEEATERT TSIATTTTTTTESVEEVVRVPTT AASPDAVDKYLETPGDENEH AHFQKAKERLEAKHRERMSQV MREWEEAERQAKN\LPKADKK AVF\QHFP\EKVESLEQEAANER QQLVETHMARVEAMLNDPRRL ALE\NY\TALQAV\PPRPRHVF\ NMLKKYVRARTEGLVSTSL*HF EHVR\MVDPKKAQIRSQVM\T HLRVIYERMNQSL\LLYNVPA VAEEIQDEVDELLQKDANYS** RLWPTMISEPRI\SYG\NDAL\MP SLTETKTTRGSSVPVNEE\FSLD\ DLEPVHFFWWLTSVPANTENE VE\PVDARPAADRGLTTR\PGSG LTNIKTEEISE\VKMDAEFRHDS
19081	49449	A	19190	103	463	PLLYAMSTGKRWLSFGSMIPPV AICASNKRIWPFSMSSLFMAW NKEMMFVSGSLYPVTARSAD RSFSLNSMPTRPLL*ASSTGNLK LLTGSTIKPVAAWASSNSRAVP GRTKPIFMAS
19082	49450	A	19191	1	182	
19083	49451	A	19192	3	437	MVHAEISDEGFFLSAPIALTQA WLNIPKT\RRTFCK\KCGKHQPH K\VTQYKKGKDS\LYAQGKRRY DRKQSGYGGQN*KPIFRKKAKT TKKIVLKALSALSPTCRSKSKC WLFKR\CKHF*TGEEIRKRGQ VDPVLKCHLLFMEGH
19084	49452	C	19193	341	421	

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19085	49453	A	19194	15	1066	VLACTVEASVIGGQKREMNMG SIVREGFMEEAGPRIGFNLSFFI QSTVTGSSSVGSTQLQPLSLPPA TAGQEPRGTGPLGSHNSCPAPE PVSYGRLNDPPATTHPGSFTRF HSKPLTSSCWDSEMEGCVSNL MVCNLASFLNVSTNPCAFFPW YFYLLLL*AGWSPLHIAASAG RDEIVKALLGKGGVLNVYTNT DRFLHCFLSSPSFQIAVMLLEG GANPDAKDHYEATAMHRAAA KGNLLARNPNHYIELVVINWSL VVPDFRHLACDEERVEEAKLL VSQGASIYIENKEEKTPLQVAK GGLGF*YSREWVGRFKQLGFIL YFVLLCLLSPVSYKLMYLCRTH
19086	49454	A	19195	1597	1923	
19087	49455	A	19196	551	747	
19088	49456	A	19197	1059	1296	
19089	49457	B	19198	1	1281	
19090	49458	A	19199	3	565	LPGRLLLLNFRQRRQIDRPSMN DTRNLSRT\RKFHAPTRPTSEEN KWVIDVLSPAGRPTVP*DQKFR EK\LA\KMYQAPHPDV\ILVFGF\ RT\HFGGKTTGFG\MIYDSPWI MQRKNEP\KHRLAR\HGLYEKK KDLKKATEKERQEPELKKVQG GLAKGPLLGAQKEEMKCLAV ELEIGSQPKELKVLQ
19091	49459	A	19200	2	476	

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19092	49460	A	19201	1	2448	MRGSILKECGSKERASQVDLEY SRGNTASFAMCFHDRARIMKG SQRSRKLTTGGEGREEGERVENK DFLDLHGQIQVRLVVKASLLS RVTYIAEVEGRETDAGWRNEL QVGRLDSPDILVVSISTDHTLV DTHLEAVGGHSHEFPYFKNHL ACHVESELQRDRNGHRDAGWR NMRHGITDKEMQDSQGSSDNH VLGSLRSWSARAAPALPLPEE AFVEMSTEGGFGGTSRSDAQQS LKSFWRPRFFITELTLRAWIHT EDNNCRTYVAMAITKFDQLDF LIDIVLRDELKPPKCQEEVLQSV TPAEPVQYYFTLAQQPTAIVQV QGQQQGQTTASSMTTMQPGQII IAQLQQGQTPVTQTQVGEQQ VQIVQAQPQGAQ*ASQGTGW TVQGQIQTLATSAQPITQTEVQ QRQQ*FSQFTDGGQLYQIQQVS IPAGQDLAQPMFIQSANQPSD GQAPRSHEVIAAAPARRERER ELAGRGPFPCPPAGNVRLKSR RCLPGERRERARKKKPEGGAA ASERGETDSHPGASGQGPDSG RVPLGMWSRRGLGVSRAPLHL LLGVSTSFPLPLTPIPTAVVN PLKPLKNRIKAPHRMPLVPGG SQNLGTVRARISTRQSHAEPST DNERVLSMTQDIHSIFLNLKNIT WICTLQSCGFLLSNLCKDIVHK AGSGEARTRWSPRAQAGTHED
19093	49461	C	19202	124	369	
19094	49462	B	19203	739	870	
19095	49463	C	19204	787	969	
19096	49464	A	19205	101	331	
19097	49465	A	19206	137	415	
19098	49466	A	19207	86	221	
19099	49467	A	19208	1	1347	
19100	49468	A	19209	120	899	FGARGNLKKAYSTRSKMAELN THVNVKEKIYAVRSVVPNKS NEIVLVLQQDFNVDAVQAF VDGSAIQVLKEWNMTGKKKN NKRKRSKSKQHGGNK\DAKDK VERPD\ACPLQPQPPQIQNGPM NGCEKDSSTDSANEKALIPRE KKISILEEPSKALRGVTGPNIEK SAKDLQRCTVSLTRYRVMIEE VDSSVKKITAFAELHNCIDKE ASLMAEMDKGIEEAMEILTAR Q\RKAEALKRLTDL\AS\QMAE

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19101	49469	A	19210	211	2150	ADTKPERGVSSAVFASGSEGRRLGCVLLSSSETRLLSGTLLWIPRAYSTRSKMAELNTHVNVKEKIYAARSVVPNKSNNIEIVLVLQQFDFNVDKAVQAFVDGSAIQVLKEWNMTGNKKNYKRIRSKSKQHQQGNKDAKDKVERPEAGPLQPQPPQIQNGPMNGCEKDSSSTDSA\NEKPALIPREKKISILEEPSKALRG\VTEGNRLLQQKLSLGG\NPKPIHGTTERS DGLQWSAEQPCNPSKPKAKTSPVKSNTPAAHLEIKPDEL\AKKRGPNIEKSS/VKDLQRL/CTVFF*LEYRVMN*RERKWDSSGERRSKLPFAE\LNHCIEQKEV\SLMGRKWD*SLKEGRPWEILDWLVRKSKKKLKR LTD LGQSRMAEMQLGPKLR\AEIKHFVSEAVNYDE\ELGKSCPGFSCDIEQ\K\AQIHALPGKITHPK\NNYFLKELPCSSLLPLLNAARSKPLGKTEVTFSRKSSTHNKPSEGKAANPKMVSSLPSTADPSHQTM PANKQNGSSNQRRRFNPQ\YHN\NRLN\GPAKSQSGSNEAEPLGKG\NSRHGTQEGQPH/NRFGFRPKNKGRCQKIQEASLGIEGPPRAPAHFLKRPRAKGSHAADTFGRARAFSGVS/GSVRGSQC�LFPT\RIEVSTDAAVLSVPGCDRWVA
19102	49470	A	19211	93	180	
19103	49471	A	19212	3	39	
19104	49472	B	19213	1	888	
19105	49473	A	19214	863	1509	GCAGPCLVNQMFTSSILCKSHCHSLVSINQGHNAPWKAAG\PLPLKAGYC\QSFSPCDSLKYG\SWDEKDLTVPPQPDTRKASVLRWISQRGKPLAVDMEEG\HCL\CLPPGN*NVLGCKTPIVHLFNSSELGRKAALWREARHVG\SNAALLFFTPLRCLGGEKHKSGLHAHPGIVP\SELNYDIDSFAHVVFVAVELPLIITLLPYCIPLCCNNEK
19106	49474	C	19215	289	510	
19107	49475	B	19216	534	1686	
19108	49476	B	19217	1	1062	
19109	49477	B	19218	1	1878	
19110	49478	B	19219	1	747	
19111	49479	B	19220	230	786	
19112	49480	B	19221	67	6011	
19113	49481	B	19222	1	3455	

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19114	49482	B	19223	1	4763	
19115	49483	B	19224	65	4534	
19116	49484	B	19225	512	4782	
19117	49485	B	19226	345	2194	
19118	49486	B	19227	267	7391	
19119	49487	A	19228	578	739	
19120	49488	A	19229	419	1410	KQRQARERHLPRIPQLSAVVVTE TL*RK*RNFAELKIS/RLRKKFA HKMLQKARRKLIYEKVKHCHK EYRQMYRTEIQMATMARKAG NFFVHPKPKLAFVIRISAISGVSP KWKNKQLCPLNHVFLGMGD LRAFGLADGTGPSGGEITGMRD LRGPLSVRAPSAGVAEIPRHLIV FEDVVNGKFLQTSRCEISGSKN KVWQTLLKNKRERQRLPTGFG RLADQRAYGEAKNCGQVGL VETLWERHLLRIGVVIATSSLA VPTLSSNYNGLAHDQSCSDTVQ RSTGAPEAWDRGYCVGRGAQG IPIFFLDRPLTSLFDEARGSSSAS
19121	49489	A	19230	3	307	AGTMEGVEEKKKEVPAVPETL KKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKHYHKE YRQMYRTEIRMARMARKAGN FYVPAEPK\LAFVIRIRGI
19122	49490	A	19231	3	160	GRVLL*DKTSRGITRQQQLFT NICCSAASA/G*YPGKQGLEWT SSRLQQTCS
19123	49491	A	19232	303	570	GLCIRHVLVPSAAGLLEFAGGP LQTLFAWVSAAEAAEQQIWWN SKCC/CPDRSSGSFVSEEYLAV* GVGLTLSSASLMLGAVDWSCS HSA
19124	49492	A	19233	1	176	MQYVQQKPKLKFQVHICAYRK TVLQPPLLIPRQT/VVWSGPPA NSNRPAAGGADC*KEN

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19125	49493	A	19234	1	1977	MFAVLQAPLVIPRQT/WVWSGP PANSNRPA AEGPDC*KEN*RQT GSGVDLQQTPTDLQLRVLIVRR KTNEQKGHPHQNPICSPSSKT KVDTTNMGEKQSRKTENSKN QSASPPPNLKKKREKNQIDAIAK NDKGDITTDPTETIQTIREYYKH LYSNKLENLEEMGKFLDTYNLP GLNQEEVESLNRPTGSEIEVIIN SLPTKKSPGPDGFTAIFYQRTK DKNHMIISIDEEKAFDKIQQPFM LKTNLKLGIDGTYLKIIIRAIYDK PTANIILNGQKLEAFPLKAGTR QGCPLSPLLFNIVLEVLAREIRQ EKEIKGIQVGKEEVKLYLFADD MIVYLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTSNRQT ESQIMSELPVTIASKRIKYLGIQL TRGVKNLFKENYKPLLNIKED TNKWKNI PCSWIGRINIMKMAI VPKVIYRFNAIPIKLPMFTFTEL EKTTLKCIWNQKRAHIVKSILS QKNKAGGIMLPDFKLYYKATV TKTAWYWYQNRHIDQWNRTE PSEIMPHIYSYLIFDKPDKTRNG ERIPYLIRWCWCWQNWLAICR KLKLDPFLTSTYTKINSRWIKDL NVRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTEWENISAIYSSDKGLISRIY
19126	49494	A	19235	206	456	
19127	49495	A	19236	2	385	NLCCSAASAGDTQANRVWSGT PTNSSRPEVSSGAMDGEGWGL PVDPLTPGHQDALPWQRCYHP CSSSSVPPRQACASPACSSSAA W/TSASTGPWHS GCGSSCGSCC CWGSPSASVGVGAGAIRSRTV
19128	49496	B	19237	1	642	
19129	49497	A	19238	128	584	
19130	49498	A	19239	4054	4578	QSGPSAAGLLEFAGGPLQTLFA WVSAAEAAEQRILVNSRCCCLI VPARKFCLRGVASHVRCQSAPY DVFCHGITLAKCWCSALGLPSL QSCEPNALFFINYPVCGI/TAPCC KVEGTMG\VGPKSPQL\SYNVL GSDNNGVLLGSMIAFTILILLIH EHGMFFHLFVSSFISLSSGL

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19131	49499	A	19240	1	948	MVLEKAREEVDPPSMLIPPVTQ CGQLPRSQCPOPTLSRMLTLEV GISLGHVLMISLWPDTVKEYQS REALSFKKYNKNPGLLKFFAGDP LQTLFAWVSPAEEAEQQISALC FLWKLRRPGAPTRCQPLLSYTR CLSAPAGSFVYTMRGKPPIQAS VMADASPPTKIEHPRTTSDCCV ASKNFKPVDLSLLCSMGVGS AE LDHWATWLQSPFQGSERFCLA GVPGTTGV*KETPAASSVSAQM AAQFCA*N/HRTLTV*APKGIL WVCGLRRPWEEKRSICAGVHHS SWHSPSWLPLARGGSSSTPCTS WVRRCP TLHL
19132	49500	A	19241	171	1345	YCPKEGTLDFNF AFNMTAVNV ALIRDTKWL TLEVCREFORGTC SRADADCKFAHPPRVCHVENG RVVACFDSLKSVTAVPFLFMAL GLSREPETVPAS MVQTFSLGVG GGAGSV*PDENCKYLHPPPHLK TQLEINGRNLIQKKTAAAMFA QQMQLMLQNAQMSSLSGSPMT PSIPANPPM/SFESLRYHILGMG LVPAELVPNTPVLP GKPTSLQL PGSCLGPKLMAFQINWEVLPRN FQRG\NC\SRGEND\CRY\AHPTD ASMIE\ASDNTVTICMGYIKGRR TVGVWGIKAKSSKQRILDTKGS HQN SFVRGTDYLIPICTNMSK AKGT AFLKWMQKLVYNGSSG QCSPAFFCCAWKEHSEKAGRA SGAKCNRHRHTNPVFLMREGA IS
19133	49501	A	19242	61	544	KFN P\FVTSRPRARIRKRAF\NAP \SHIPKGRLLSFPLSPKSLRPEG TNRADSHAPIKRMIESSRLYR GHL*GSAKLAKVVPFRTRKKY VIYIER\VQREKA\NGTTVH\VGI HPSKQVVITKAKTGKTRKKIP PNRKAQSRQVGKEKG\KYKER TIEKMQE
19134	49502	A	19243	652	1042	TPLSSCFLSREKATQLLFPVVA VPMVLSAMGFTAAGIASSSIAA KMMSAAA IANGGGVASGSLVA TLQS/LG*VSWRGLPTVLPTELP RQACPTLSTLCFFPGATGLSGLT KFILGSIGSAIAAVIARFY
19135	49503	A	19244	48	397	

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19136	49504	A	19245	42	296	GCVGVRPSLHPATSTASGSASP TLARAMASVSELACIYSALILH DDEVTVTEDKINA/APAEKKV EAKKEESESDDDMGFGLFD
19137	49505	A	19246	172	519	LGPSFLHDDEVTVTEDKIQMPLI KAAGVNVEPFWPG/LCFAKAL GKRSTLGSLILAMLGGPVGPGS QPAGCLQPAG/GSCPPSTCCWF QLEGEKWEAKERKIPREF*LID MGFGLFD
19138	49506	A	19247	3	175	
19139	49507	A	19248	2	390	GWDWNCVWEPHHWLCQSL/N SVTQAGVQLCNLSSLQPLPLGF KQFSCLSLPSSWDYRNP SLKQQ LFSYAILGFALSEAMGLFCLMV AFLI\SLPCEGAVSTSHSSPASG WPRVFLFLYLPRQPGERGWLRL
19140	49508	B	19249	139	13320	
19141	49509	A	19250	28	450	TNDFNLQNP GSCFPSACPAVG SERLPVLGWVFGNRSFPPPPQST LSVLGKRLGRNGAIAAGVFGA LFIGYCIYFDRKRLK*PQLKDAE AVQKFFLEEI*L\GEEILAKGVD HLTNPSAFFG/QPNHFPLQMDSF GPFLRFQA
19142	49510	A	19251	164	420	
19143	49511	A	19252	1	329	STHTTYWEGCRTTSAGLLRKH EPGEEAF/FYHST\SKKPGIAGLI KVN VQFVRMMKRSIPWAE LNP YHQAHKATGGPLKNMVLFT RQ RLSIQPLTQEEFDFVLSLEEKEP
19144	49512	B	19253	39	368	
19145	49513	A	19254	1014	1290	
19146	49514	A	19255	122	680	LARITRIVRTKVPCSVTMSRPRK RLAGTSGSDKGLSGKRTKTENS GEALAKVEDSNPQKTSATKNC LKNLSSHWMKSEPE SRLEKG VDVKFSIEDLTAQAKQTT CWD GVRNYQAS/RNFLRAMKL GEE\ AFFYP*QLAKKPGIAGLMKIVK EAYPDHTQF*EK\NPHYDPSSKE DNPKWSMKSLILF

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19147	49515	A	19256	2	1005	RISTSTLCPKPKKLIAPPGRAGL ASMGLNEEQKEFQKVAFDFAA REMAPNMAEWDQKDRKADGK GGAVTQEVQAQLLVKHGQKL VSRFQLSSFSYVDSVRTTQSKQ EHLQTDKGLSGKRTKTENSGE ALAKVEDSNPQKTSATKNCLK NLSSHWMKSEPESRLEKGVD VKFSIEDLK\AQPQ\QTTCW\EG VRNY\QARNFLRAMKLGEE\AF FYH\SNCK\EPGIAGLMKIVK\EA \YPDHTQFEKKQPPPL*PPS*QR GTTPKWPHGWMV/QVWFGMM KRFHSPLAELKS\HHQAHKA\S GGPL\KNMVLFT\RLS\QPLT \QEEFDFVLS\LEEKEPS
19148	49516	A	19257	3	727	VRLQFLTPTLRAARTMAAPPQL RALLVVVNALLRKRRYHAALA VLKGRNGAVYGAKIRGPSRR WVMTFLFREWAASREKLWAIL Q\ATYIHSWN\ARFVHFLTRV FRCPAVPYITRARTYPAHAFPG AGLSFGGIL\VFGRKQ*TFNSQI\N MYLLSTRPCLP*SR\AVRRK GLHP*NPRWDPPF/VCLTAVVW GLVLWLFYHRSTLQPSLQSSM TYLYEDSNVWHDISDFLVYNK SRPSN
19149	49517	A	19258	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS\DPEEIE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAPWSRTSQPPE

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19150	49518	A	19259	1	1309	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEEDVL KFLAA\GTHLGGTQFLLSRGHG YFYKGKS/DGLSFIINPKRAREE\ LLLPARQIVPHKTPS\DVSVISSG NTGQVCCTVRA/VCLKFAAAT G\ATPVIAGRAFTPGTFH*PRSKA AF\REPR\LLVVT*PPGADPPALS RSASYVNLPHYHLRCGNT\DS\QL RYVDIAIPCNNKG\AHSVGLMW WMLARGSFCAMRGT\SREHPW \EVMFDLYFYRDPEEIEKEEQ AA*E/RQVTKEEFQGEWTAPAP EF\TATQPEVADWSEGVQGAPL VPYSAIPTEDWSSQPAMEDWS AAPTAAQATEWCSRTSLRQNPSD TELKKEGLYSARSISKTHVSKT ELPNQGTKKCSRTSHRQNPSVT ELKKEGLYLARSIGKTHISKTEL
19151	49519	A	19260	965	2495	AFTTRSTFSTNYRSLGSVQAPS YGARPRQAARPASYAGAGGSG SRISVSSTSFRRG\MGSGGLAT GTSPGVMAGMG\GIQNEKETM QS\NDRLAASYLGQE*RSLEDR RTRKLGRAKFREHFGRKKGPQ VRDW\SH\YFKI\EDLEGFRFFR KILVGQCPASVSARFDNAPSL LD*F*EFKY*GQSWPMCPVLE NDIPLGSAKVI\DDTNYHTDLQL \ETEIRGSSRRELLFQ*RRNHEE\ EVKGLQAQIASSG\LTVE\VD\AP KSQDLAK\IMADIR\AQYD\ELA RKEPEKEA*TKYWSSADLREST TVGHPHKS*GWKLAEDDASQ KLRRTVQSLEDRPWTSMRKSE RPALENSP*GEVEAPLRPLQDW SQLQTGIPACHLWSQELGTRHR AQRGQRPQPQGV*GPLLNHQG SSLEAEICHLTRPPSWKIGEDFN L\GDS\LDERNMQTIQKTTTPP G*VGLGKVVS*DQLTPKVLKAL SQQEAVVPFWGSRRIKSFVRVQ KKKKEKESF

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19152	49520	A	19261	387	1125	CCRPCATPYALRSPLR*PACPPP RWRPSSMPTSRPPVSPAASPTC GTCMLSP\CPPAEHLLHLP HQP QDPALLQPCHPAPPLRPRALHA AHHVGWPAPHQPLLPPPVLCPC GGAGRGGG*RCPWRGPSSSSPG PTLIAGQDPGAAQP*TWQ/PTL TSVSATASPKAP\LPLAAAVPGA PAEGCCPLL RQALPAGQLPPGG RRATSAVPPAVPGD/PPAQPTM PGSMSCWALAPARPCPPGRCW AWRS
19153	49521	A	19262	3	1097	RGNSRLRYSHDELQLR LPEL FGNCRQLLEEVEVATDPAGFR\ IVQEK\VFKG\LDLLE\RAAEML\ SQSTLFGRECRFWKDLSPHLIT FWGP\AFQGALTMKQVNP SKR LRSFCSGAREHFI\NYLT\QCH\C YHVGQSFEL\PKTMNNSAENH TANSSMAYPSLVAM\ASQRQA KIQRYKQKKELEHRLSAMKSA VESGQADDERVRGYLLHLQR W\VDISLEEIESIDQEIKLRERDS SREASTSN\SSRQERPPVKPFHS HFGTWLHSQSTFGAGYSKGWP TYGR*VSWYE\QHRKLWSTYP DQGNMPRAAPEGISEKAAQQQ EDQEEKEEEDDEPNNFHRRARE W\DDWK\DTHP\RG\YGNRQNM
19154	49522	A	19263	2	262	
19155	49523	A	19264	3	1062	GRTAENPARAVSSPNFYAHRKT EVLFPCLTQPLARGPKKHLK\R VAAPKH\WMLDKLTRVFAPR\ P STG\PHKLR\ECLSRIF\LRNRLK \YAL\TGDEVKK\CMQR\FIK\ID GQSELDINLPLLGFMGCP SAF DKTGEENF\RLDLIDTQGV RFC WYIRI*PPWRKAKLQVWCQK* GKILCGPTKRESPSSGLTH*CPA PHPAYPIPPHPR*NGYPIPD*I*E DLAKINLISIQSSEHW*TL CMGD LEGA*P*GRNWVLITPTERGHP GIFLTVGSR*KDANGQQAFGHF GLFQHFLVIGKG NKTHGISL\PR GKGIRLHHLLEERDKRLA\AKQ SQWGEMGSLGV DIVQIFWYRN
19156	49524	A	19265	62	298	

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19157	49525	A	19266	1	555	MAWQMMQLLLLALVTAAGSA QPR SARARTDLLNVC MNAKHH KTQPSPEDELYGQ/SP/WMCKG SCRKTKSWNI/HRKSKCEVGLA/ WEACSVSAGTGRGPGCGRWV GAPQGP/CPRKCSSG*PTW/VQR SQNMEEMAVVNQSWRKERILN VPLCKEDCERWWEDCRTSYTC KSNWHKGWNWTSAPSAVCDP LL
19158	49526	A	19267	216	974	MDMAWQMMQLLLLALVTAAG SAQPR\SARA\RTDLLNVC MN AKHHKTQPSPEDELYGQCSP\ WKK\NACCTAS\TSQELHKDTS RLYNFNW\DHCG*KWNPTCK\ PLYPQDSCL\YECLTPTLGPW\ IRQFNQSWRKERFLNV\PLCKEDC ERWWEDCRTSYTCKSNWHKG WNWTS\GINKGRPGAF*STFES YFPTPAALCEGLWSHSFKVSNY SRGSGRCIQMWFDQAQGNPNE EVAKFYAAAMNAGAPSRGIIDS
19159	49527	A	19268	345	2138	QRLTATSSWTTMAKNRRDRNS WGGFSEKTYEWSSEEEPPVKK AGPVQVLIVKDDHSFELDETAL NRILLSEAVRDKEVVAVSVAG AFRKGKSF LMDFMLRYMYNQE SVDWVG DYNEPLTGFSWRGGS ERETTG IQIWSEIFLINKPDGKK VAVLLMDTQGT FDSQSTLRDS ATVFALRHNDPASIQVYNLSQN VQEDDLQ\HLQLFT\EYGQDW AMGGKH FLEAIFRSLDYFFVRD W\SF PYEFSYGADGGAKFLEKR LKVSGNQHEELQNV RKHIHSCF TNISCFLPHPLGK\ VATNP NFD GK\ LKEIDDEFHQKL* KYLIPWA YFRSRGA*DI*RRSNGGLK\ITC RGLVEYFKAYIKIYQGEELPHP KSMLQATAEANNLAAVATAK DTYNKKMEEICGGDKPFLAPN DLQTKHLAT*GRNLWKLFRGV KKMGGEFSRRYLQQLSEIDE LY\TNISSHNDK\NTFPCSSYPQ PTLFCSHPLITYVIAGVTGFIGL DIIASLCNMIMGLTLITLCTWAY IRYSGEYRELGA VIGPRWLQLC GTREVQMRPW NKLYQCQQAT PTDILYPSKPFPLHPKVGNLTEQ IQKRKKMVMPKF